



WINCHESTER
ENERGY LIMITED

**Australian Energy and Minerals
Investor Conference**

17 March 2021

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The estimated petroleum reserves and resources referred to in this presentation were first announced to the ASX on 16 March 2021.

The estimated quantities of petroleum that may potentially be recovered by the application of future exploration and development project(s) relate to undiscovered accumulations. These estimates have both an associated risk of discovery and a risk of development. Further exploration appraisal and evaluation is required to determine the existence of a significant quantity of potentially moveable hydrocarbons. The Company confirms that it is not aware of any new information or data that in its opinion materially affects the information included in the relevant market announcement and that all the material assumptions and technical parameters underpinning the estimates in the relevant market announcement continue to apply and have not materially changed.

COMPETENT PERSON'S STATEMENT

The information in this document relating to petroleum resources and exploration results is based on information compiled by Mr Laurence Roe. Mr Roe has a BSc in Geophysics from the University of Adelaide and has over 40 years experience in the technical, commercial and managerial aspects of the oil and gas industry. Mr. Roe has consented in writing to the inclusion of the information stated in the form and context in which it appears.

The Contingent and Prospective Resources estimates in this report have been compiled by Kurt Mire, P.E. of Mire Petroleum Consultants from information provided by Winchester Energy. Mr Mire is a registered professional Engineer in the State of Texas and has over 30 years' experience in petroleum engineering. These Contingent and Prospective Resource estimates and their associated calculations may be subject to revision if amendments to mapping or other factors necessitate such revision.

Gas quantities are converted to boe (barrels of oil equivalent) using 6,000 cubic feet of gas per barrel. Quoted estimates are rounded to the nearest barrel.

All references to currency are in US\$, unless stated otherwise.

Summary

- Established US oil and gas explorer and producer
- Listed on ASX in 2014 (ASX Code: “WEL”)
- Operations office in Houston, Texas
- Corporate office in Perth, Western Australia
- Winchester operates 18,856 net acres under lease in Nolan & Coke counties in the eastern Permian Basin, Texas
- Ongoing conventional oil and gas production:
 - ✓ 252 boepd (gross; Q4/20)¹
- Net Reserves and Resources total 11.6 million barrels of oil equivalent (mmboe)^{2,3}
- No Debt

Pumpjack in Winchester’s Mustang Oil Field, Nolan County, Texas



Notes:

1. Average daily production in Q4 2020 – refer to ASX release: Quarterly Activities Report to 31 December 2020.
2. 6,000 cubic feet of gas is equivalent to 1 barrel of oil on a thermal energy basis.
3. WEL ASX Release 16 March 2021.

Company Snapshot



Corporate

Key Metrics

ASX Code	• WEL
Shares on issue	• 691 m
Unlisted options on issue	• 45 m
Share price	• A\$0.023 (12 March 2021)
Market Capitalisation ¹	• A\$15.9 m
Cash ¹	• A\$2.07 m
Debt	• NIL

Operating Metrics

Daily Production ²	• 252 boepd gross; 187 boepd net to WI
Lifting Costs	• US\$8.46 / barrel
Qtly Net Revenue (Q4 2020) ²	• A\$507 K
Leasehold - Gross	• 21,707 acres
Leasehold – Net	• 18,856 acres
Net Reserves & Resources ^{3,4}	<ul style="list-style-type: none"> • Reserves (3P): 496 mboe • Contingent Resources (2C): 4,352 mboe • Prospective Resources (P50): 6,753 mboe

Directors and Management

Laurence Roe - Executive Chairman / CEO	40 years technical experience & exploration success – USA (inc Permian Basin, Texas), Australia, International
James Allchurch - Non Executive Director	Technical & investment experience – ASX
Larry Liu - Non Executive Director	Commercial & investment experience – China
Tony Peng - Non Executive Director	Finance & merchant banking experience, USA, CFO Helios Energy
Doug Holland – Chief Operations Officer (Houston)	Extensive US operational experience
Ed May – Financial Controller (Houston)	Financial and Leasing Manager

Notes:

1. At 31 December 2020; A\$/US\$ exchange rate at that time: \$0.70 – please refer to ASX release: Quarterly Activities Report to 31 December 2020
2. Average daily production in Q4 2020; net revenue in Q4 2020 – please refer to ASX release: Quarterly Activities Report to 31 December 2020. WI = Winchester's Working Interest.
3. 6,000 cubic feet of gas is equivalent to 1 barrel of oil on a thermal energy basis; mboe = thousand barrels of oil equivalent; mmmboe = million of barrels of oil equivalent.
4. WEL ASX Release 16 March 2021.

Technical

- Large lease position in the Permian Eastern Shelf (Nolan / Coke Counties)
- High Working Interests; Established Production
- Winchester operates – controls its own destiny
- Leases covered by 3D seismic (exclusive to Winchester)
- Multiple stacked targets - typically extending over a 3,000 ft interval
- Drilling is typically vertical, shallow (around 7,000 ft) and inexpensive (US\$700K D&C)¹
- Extensive local infrastructure means a new well can be selling oil almost immediately after it is completed for production
- Strategy to create shareholder value by leveraging modern exploration science and technology to find, develop and exploit conventional oil and gas assets overlooked by previous explorers

Notes:

1. Depths and costs are indicative only and will vary from well to well & subject to prevailing market conditions.

2. WEL ASX Release 16 March 2021.

3. Reserves are stated net to Winchester's working interest and after deductions for royalty payments.

- All reserves estimates were prepared using probabilistic and deterministic methods. All resource estimates were prepared using probabilistic methods. All reserves aggregation was performed by arithmetic summation. All resource aggregations was performed probabilistically.
- Cautionary note: the aggregate 1P estimate may be a very conservative estimate and the aggregate 3P estimate may be very optimistic due to the portfolio effects of arithmetic summation.
- Production quantities are measured at the leases via a sales meter (gas) or in oil storage tanks.

WEL Reserves and Resources as of 31 December 2020^{2,3}

Reserves - WEL Net Interests - Nolan County, 31 December 2020			
Category	Net Reserves		BO equiv. (mboe)
	Oil (mBO)	Gas (mmscf)	
Proved Developed Producing (PDP)	67.3	165.7	94.9
Proved Developed Not Producing (PDNP)/Shut In	0.0	0.0	0.0
Proved Undeveloped (PUD)	56.0	65.0	66.8
Total Proved Reserves (1P)	123.3	230.7	161.8
Probable Undeveloped	106.9	161.5	133.8
Total Proved & Probable Reserves (2P)	230.2	392.2	295.6
Possible Undeveloped	153.7	279.6	200.3
Total Proved, Probable & Possible Reserves (3P)	383.9	671.8	495.8

Contingent Resources - WEL Net Interests - Nolan County, 31 December 2020			
Category	Net Contingent Resources		BO equiv. (mboe)
	Oil (mBO)	Gas (mmscf)	
Contingent Resources (Low Estimate; 1C)	1,472	2,828	1,944
Contingent Resources (Best Estimate; 2C)	2,923	8,572	4,352
Contingent Resources (High Estimate; 3C)	5,625	24,969	9,787

Prospective Resources - WEL Net Interests - Nolan County, 31 December 2020			
Category	Net Prospective Resources		BO equiv. (mboe)
	Oil (mBO)	Gas (mmscf)	
Prospective Resources (Low Estimate; P90)	2,584	1,704	2,868
Prospective Resources (Best Estimate; P50)	5,994	4,554	6,753
Prospective Resources (High Estimate; P10)	13,512	11,969	15,507

Permian Basin, Texas

Winchester active on Eastern Shelf

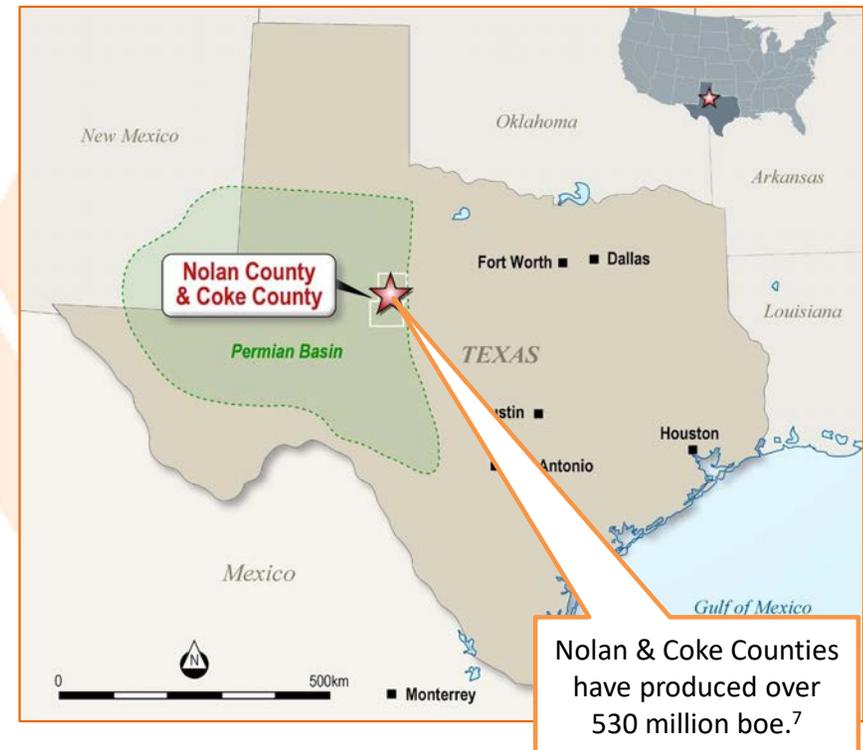
“The Permian Basin Is Now The World's Top Oil Producer”¹

Permian Basin	
Stacked, proven, prolific oil producing horizons	
Technical Remaining Recoverable Resources ²	20 billion bo & 16 TCF (Midland) 46 billion bo & 218 TCF (Delaware)
Total oil and gas production to 2018 ³	33 billion bo & 118 TCF
Daily oil & gas production ⁴ :	4.2 million bopd & 15.4 BCFG
Proportion of current US oil production (4.3 mmbo/10.7 mmbo) ⁵	40%
Proportion of US onshore rigs in Permian Basin: ⁶	52%
Number of ASX Juniors exclusively focused on the Permian:	1

Notes:

1. Forbes Magazine – April 2019
2. USGS - 2016 (Midland Basin); USGS - 2018 (Delaware Basin). en.wikipedia.org/wiki/Permian_Basin_(North_America)
3. en.wikipedia.org/wiki/Permian_Basin_(North_America)
4. US EIA Drilling Productivity Report, 13 July 2020.
5. U.S. Crude Oil Production - Historical Chart | MacroTrends
6. Baker Hughes Rig Count 14 Aug 2020.
7. DrillingInfo Nov 2020.

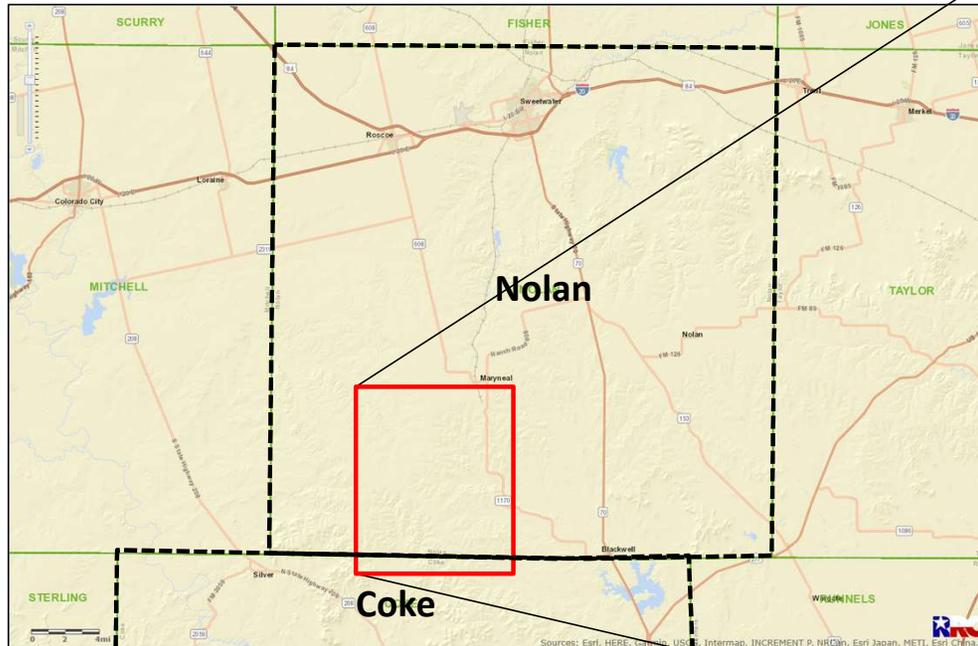
WEL Area Of Operations – Permian Eastern Shelf - Nolan & Coke Counties



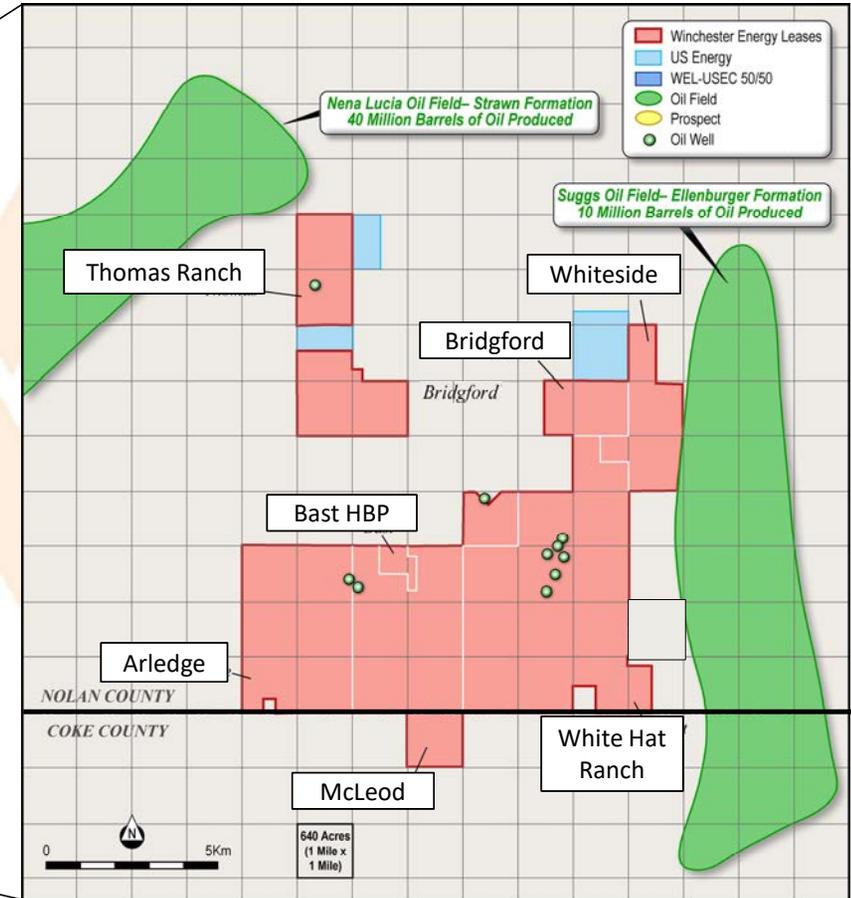
Nolan County Project - Land and Lease Status

Eastern Shelf - Nolan and Coke Counties

Winchester's Nolan County Project covers a large contiguous position, with over 19,500 net acres under lease, primarily in Nolan County.



SW Nolan County – Winchester leases and recent wells



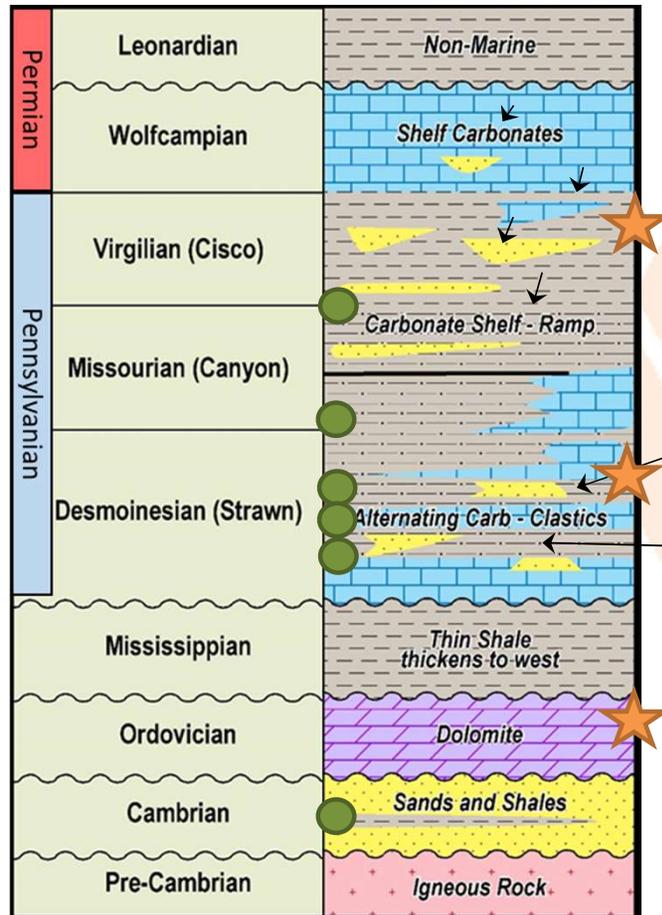
Nolan County Project – Depositional Environments

Key Zones and Potential

- Local production from multiple clastic and carbonate reservoirs in the Cambrian, Ellenburger, Strawn, Cisco and shallower zones.
- Current focus is on development of Mustang Field (Strawn Fry Sand) and Lightning Prospect (Cisco Sands).
- Significant conventional oil potential in untested Cambrian prospects and leads.
- Notional depths range from 4,500 ft (Top Cisco) to 7,500 ft (Top Cambrian).

WEL production
 Locally productive

Eastern Shelf Stratigraphy (in part)



Shelf Carb	Tertiary – sporadic porosity/pay – serendipity play
Shelf Clastic	Tertiary – sporadic porosity/pay – serendipity play
Cisco Deltaic	Tertiary – widespread porosity – structural/pinchout traps
Cisco Slope	Unconventional – widespread gross pay – Hz approach?
Cisco Basal	Tertiary – sporadic porosity/pay – serendipity play
1 Carb – Canyon Reef	Primary – 3D mappable – commercial pods
1 Clastic - Fry	Primary – 3D mappable; commercial pods – Mustang/Bast
2 Carb - Jennings	Secondary – by-passed pay
2 Clastic – Spitfire, Gardner, Odom	Primary – 3D mappable – large
2.5, 3 Carb	Tertiary – sporadic porosity/pay – serendipity play
Ord Ellenburger	Secondary – historical targets – porosity may be paleo structurally related – White Hat Ranch
Cambrian	Primary – 3D 4-way dip traps – large – engages all shallow pot Productive 10-20 km east of leases along Ft Chadbourne fault

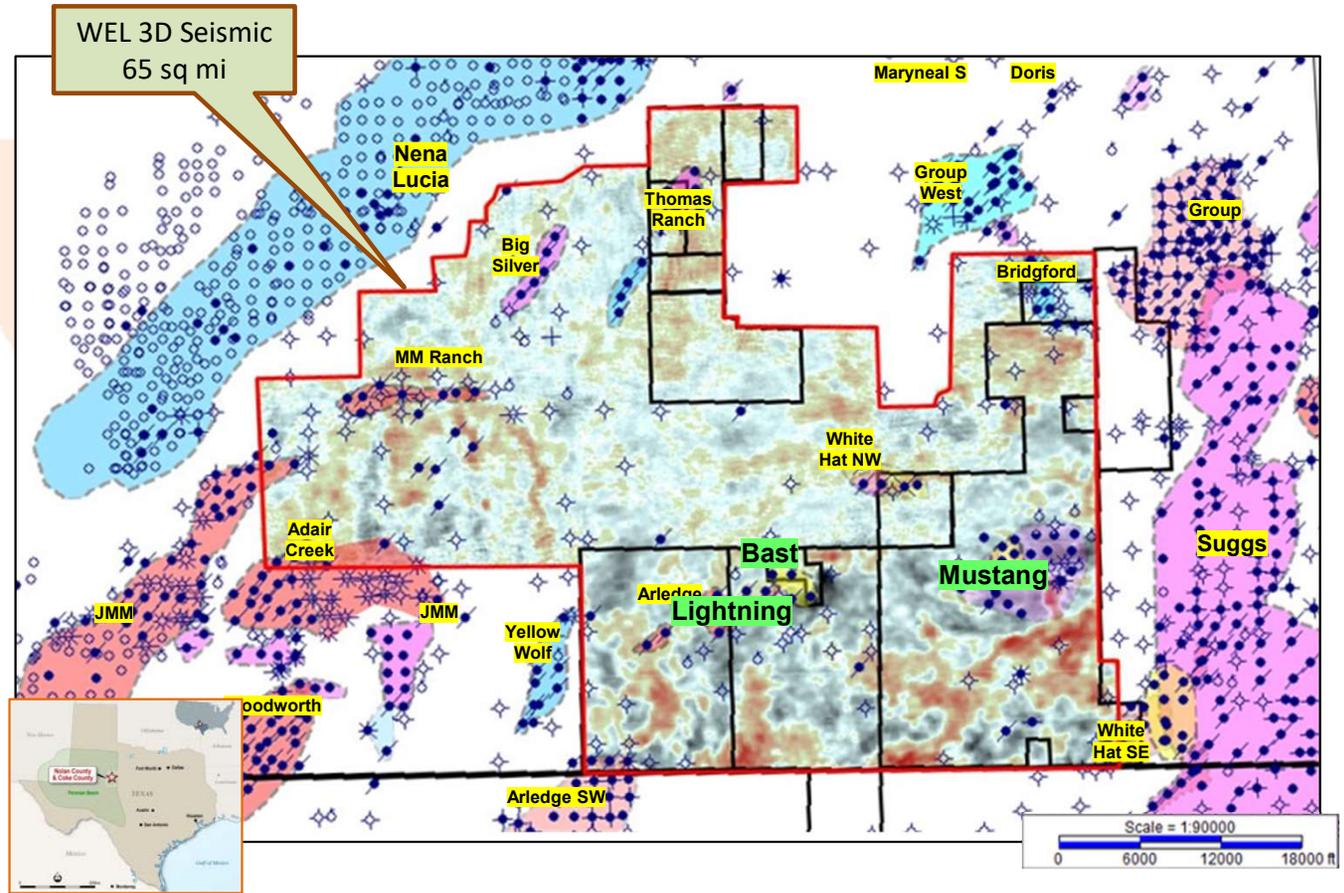
Nolan County Project – Historical Production and WEL 3D Seismic

Winchester properties and 3D seismic overlying local production

- Over 18,856 contiguous net acres under lease, primarily in Nolan County.
- Leases covered by 65 mi² of 3D seismic – exclusive to Winchester.

- **Local Production from multiple clastic and carbonate reservoirs** in the Cambrian, Ellenburger, Strawn, Cisco and shallower zones.
- **Allocated Production by Fields:**
 - ✓ Penn/Strawn Carb: 50 MMBO
 - ✓ Ellenburger: 28 MMBO
 - ✓ Cisco/Canyon 29 MMBO
 - ✓ Strawn 20 MMBO

Key Producing Intervals	
	Cisco
	Strawn Carbonates
	Strawn Clastics
	Ellenburger

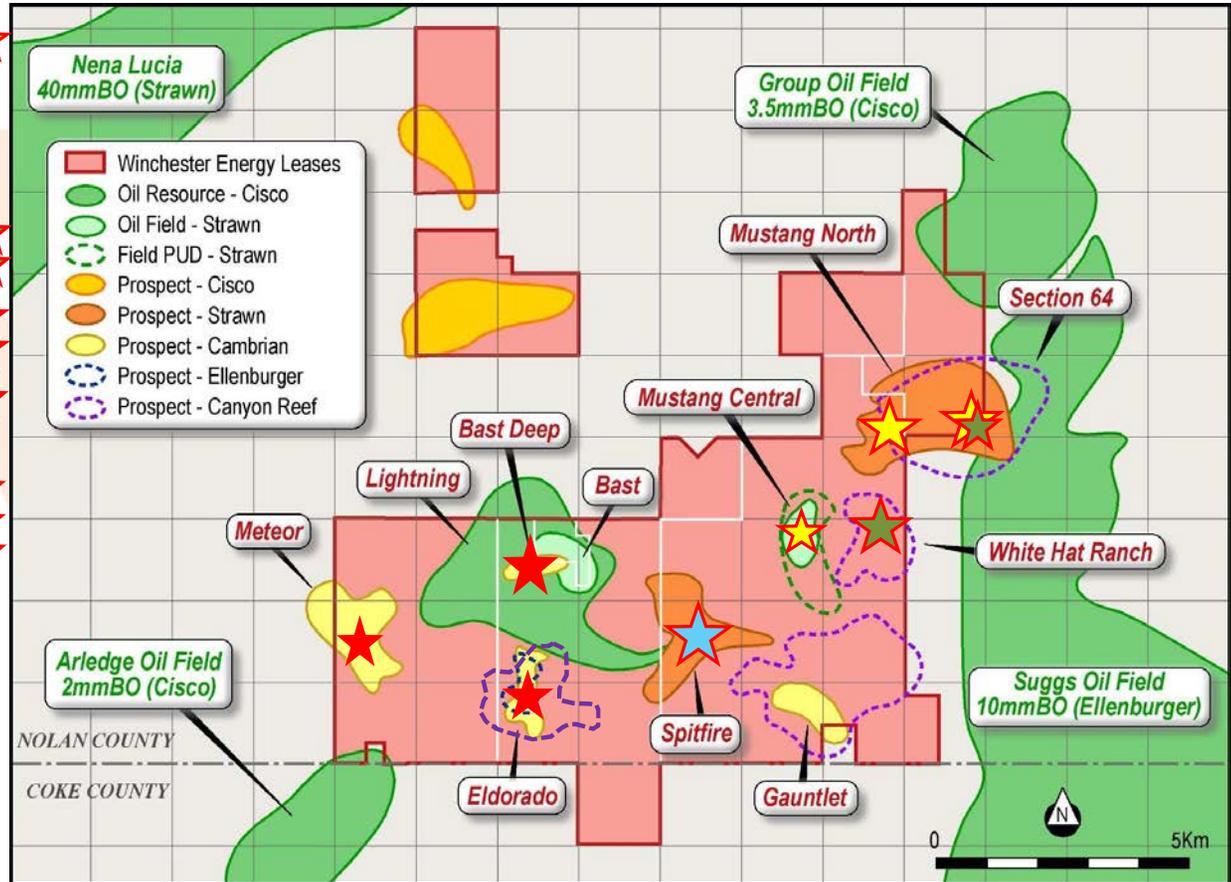


Nolan County Project - Prospect and Play Summary

2021 Review - Multiple Prospects and Play Types

Winchester Energy leases and oil fields, prospects and leads

Winchester Production	<ul style="list-style-type: none"> Mustang Field (Fry Sand, Elbgr) ★ Bast Field (Bast Sand) Lightning (Cisco)
Winchester Resources	<ul style="list-style-type: none"> Greater Lightning (Cisco Tight Oil)
Canyon Reef Prospects	<ul style="list-style-type: none"> Hurricane 6402 ★ White Hat Ranch (re-entry?) ★
Fry Sand Prospects	<ul style="list-style-type: none"> Mustang North 6301 ★ Hurricane 6402 ★
Strawn Prospects	<ul style="list-style-type: none"> Spitfire ★ Bast East (+ Cisco)
Cambrian Prospects	<ul style="list-style-type: none"> Meteor Prospect ★ Bast Deep Prospect ★ El Dorado Prospect (+ ELB) ★ Gauntlet Lead ★
Ellenburger Prospects	<ul style="list-style-type: none"> Bast Deep Eldorado Mustang Area
Horizontal Plays	<ul style="list-style-type: none"> Cisco Fan Plays (Lightning) Three Fingers Shale Strawn Sands Strawn Carb (Canyon Reef)



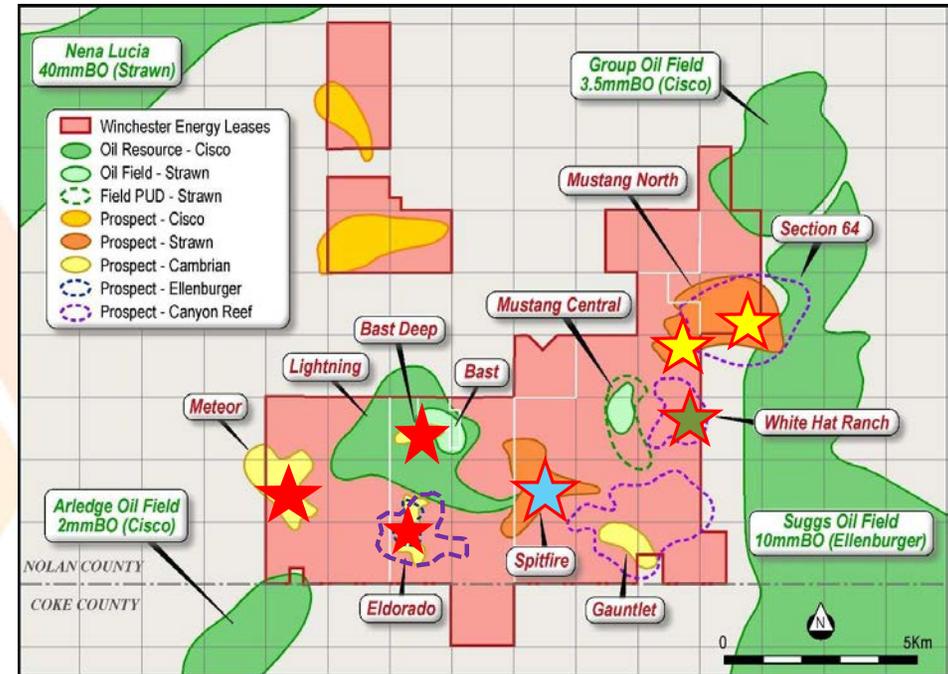
Nolan County Project - Prospect and Play Summary

Gross Resources (Unrisked)¹

Gross Contingent Resources	P90 mboe	P50 mboe	P10 mboe
Lightning Cisco	2,174.2	4,822.5	11,015.3
Bast Field (Primary)	143.0	438.5	935.2
Bast Field (Secondary)	242.2	471.7	932.0
Total	2,559	5,733	12,883

Gross Prospective Resources	P90 mboe	P50 mboe	P10 mboe
Bast Deep	381.8	948.2	2,340.5
Spitfire	1,222.7	2,730.7	6,030.2
Meteor	694.8	1,934.5	4,685.8
Hurricane (Canyon Reef) ¹	560.3	1,036.7	1,910.3
Mustang North ²	287.6	623.1	1,344.0
El Dorado	519.2	1,358.5	3,516.8
Total	3,666	8,632	19,828

Grand Total	6,225	14,635	32,711
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Notes:

1. WEL leases cover only 50% of Mire's assessed volumes – the volumes shown have been scaled accordingly.
2. WEL leases cover only 80% of Mire's assessed volumes – the volumes shown have been scaled accordingly.

Notes:
1. Refer WEL ASX Release 16 March 2021.

Proposed Forward Program

Q2/Q3 2021

- Ongoing production from Mustang and Bast oil fields.
- Low-risk drill/workover program including 0.95 – 2.34 million boe potential Bast Deep prospect

April – Bast #1 Workover
May – Bast Deep Well
June – McLeod 17-03 w/over
July – Mustang 21-06 Well

Q3/Q4 2021

- Ongoing production
- Low/Med-risk drill/workover program with 2.7 – 6 mmboe Spitfire potential upside; Meteor subject to Bast Deep results
- Consolidate increasing reserves, production & cash-flow
- Farmout higher risk operations

Meteor
Bast A #1 Workover
Spitfire
El Dorado
Hurricane
Mustang North

2022

- Ongoing production and vertical drilling
- Introduce horizontal drill program (Lightning Cisco and/or Hurricane Canyon Reef)
- Seek local farminee to defray cost and risk.

Mustang / Mustang North
Hurricane
Bast Flood?
Hurricane / Mustang North Hz
Lightning Cisco Hz

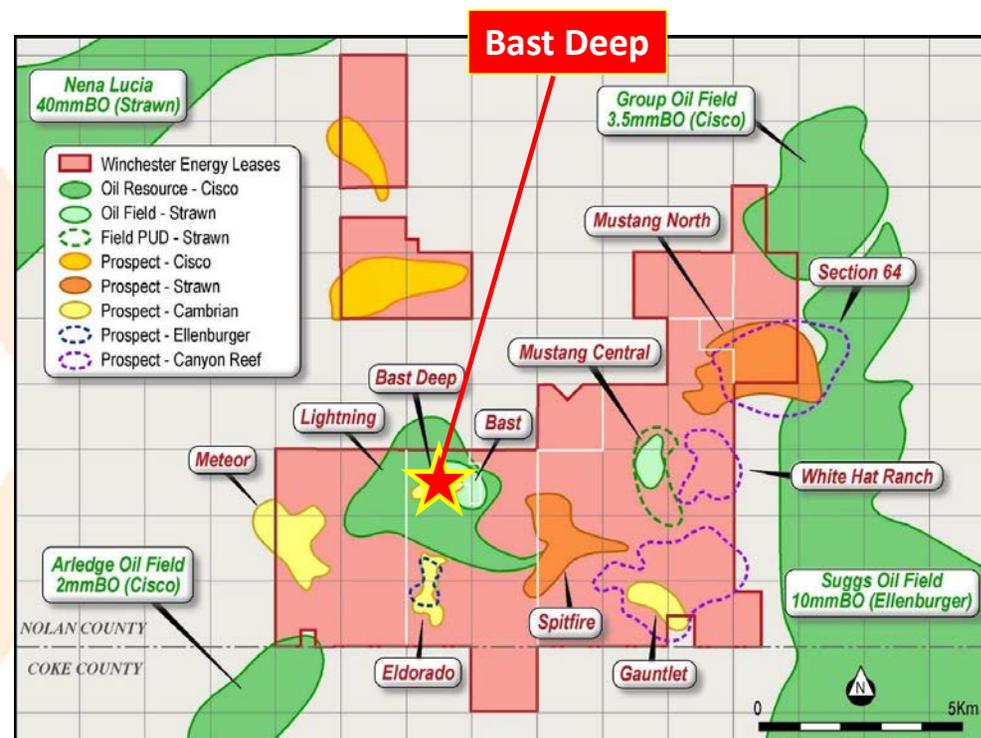
Upcoming Activity

- 2021 Q2/Q3 Program
 - ✓ Bast Deep
 - ✓ Mustang Development
 - ✓ Workovers

Bast Deep - High Impact Potential

Successful Cambrian Test will be “Game-Changer” for Winchester

Bast Deep Prospect	
Gross Prospective Resources ¹	0.95 million boe (P50/Best Estimate) 2.34 million boe (P10/High Estimate)
Primary Target	Cambrian Sandstone (4 way dip)
Secondary Target	Ellenburger Fm
Additional Targets	Bast Sands (Strawn)
Programmed Total Depth	7,700 ft
Estimated Costs (100%)	DHC: US\$400,000 Completion: US\$400,000
Estimated Spud Date	May 2021



Objective: To test multiple closed targets along the west Bast Structure – low risk Strawn bailout

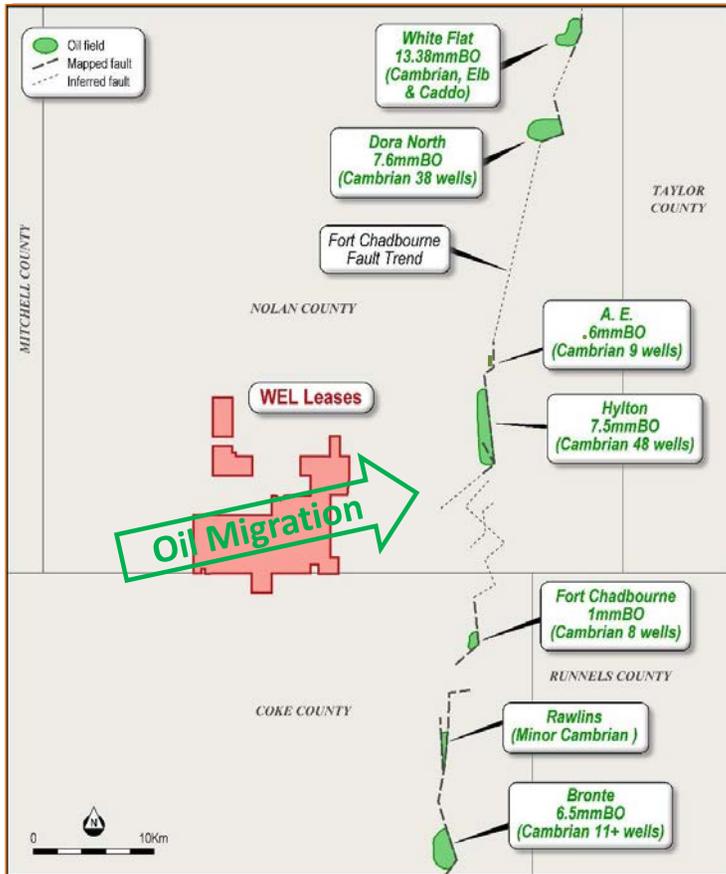
Cambrian success will confirm play type and lead to accelerated program at Meteor (Mean est. Prospective Resource of 2.4 mmboe) and El Dorado (Mean est. Prospective Resource of 1.8 mmboe)

Notes:
1. Refer WEL ASX Release 16 March 2021.

Nolan County Cambrian – High Impact Exploration Play

Cambrian Prospectivity - Regional

Cambrian Fields – Fort Chadbourne Fault Trend



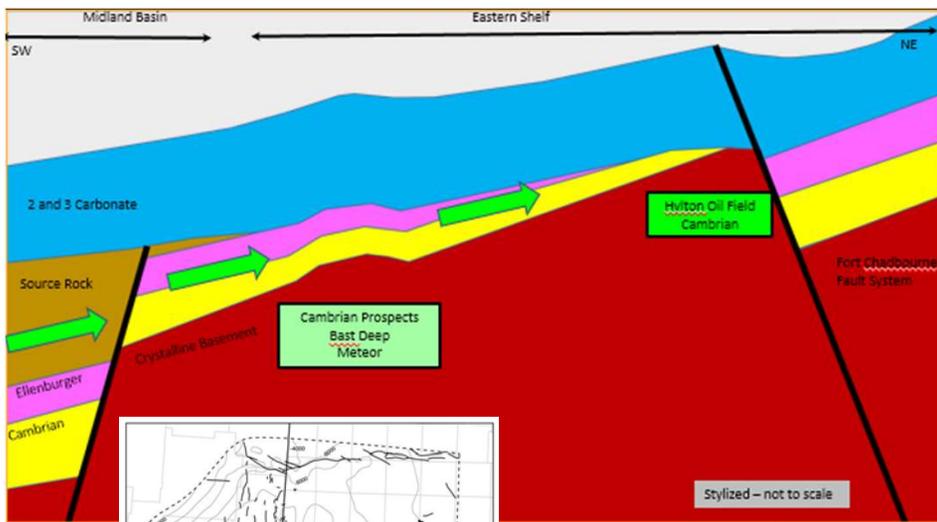
Cambrian Production Summary – Fort Chadbourne Fault trend

Field	Cum Production	Producing Zones
White Flat	13.4 mmBO	Cambrian, Ellenburger, Caddo
Dora North	7.7 mmBO	Cambrian
A.E.	0.6 mmBO	Cambrian
Hylton	7.5 mmBO	Cambrian
Fort Chadbourne	1.0 mmBO	Cambrian
Rawlins	Minor	Cambrian
Bronte	6.5 mmBO	Cambrian
Total ex White Flat	23.3 mmBO	Cambrian Only
Total All	36.7 mmBO	Cambrian, Ellenburger, Caddo

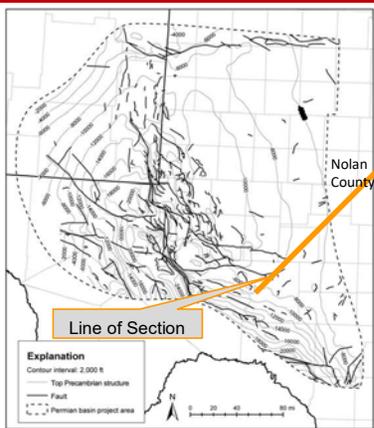
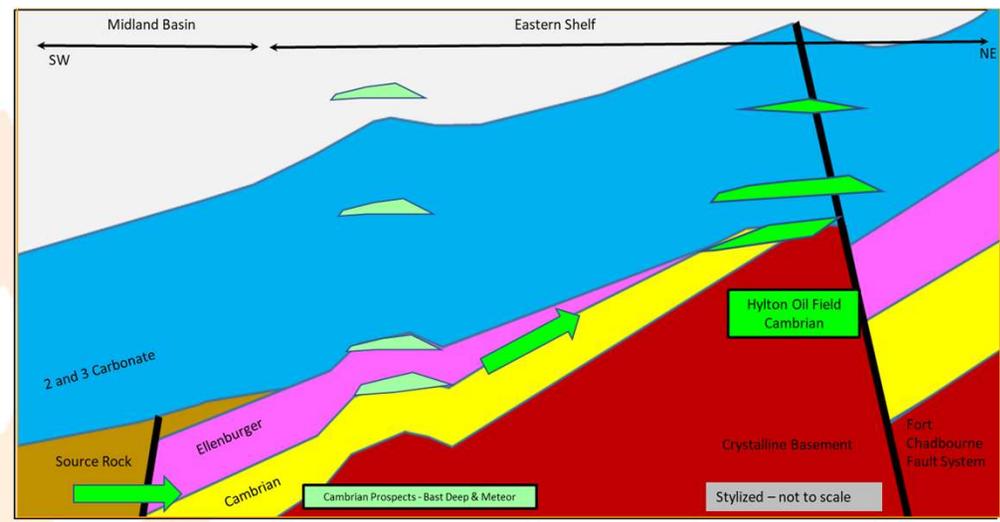
Nolan County Cambrian – High Impact Exploration Play

Cambrian Prospectivity – Regional Charge Model

Cambrian Charge Model



Cambrian Fields and Potential Traps



Permian Basin
Pre-Cambrian Structure

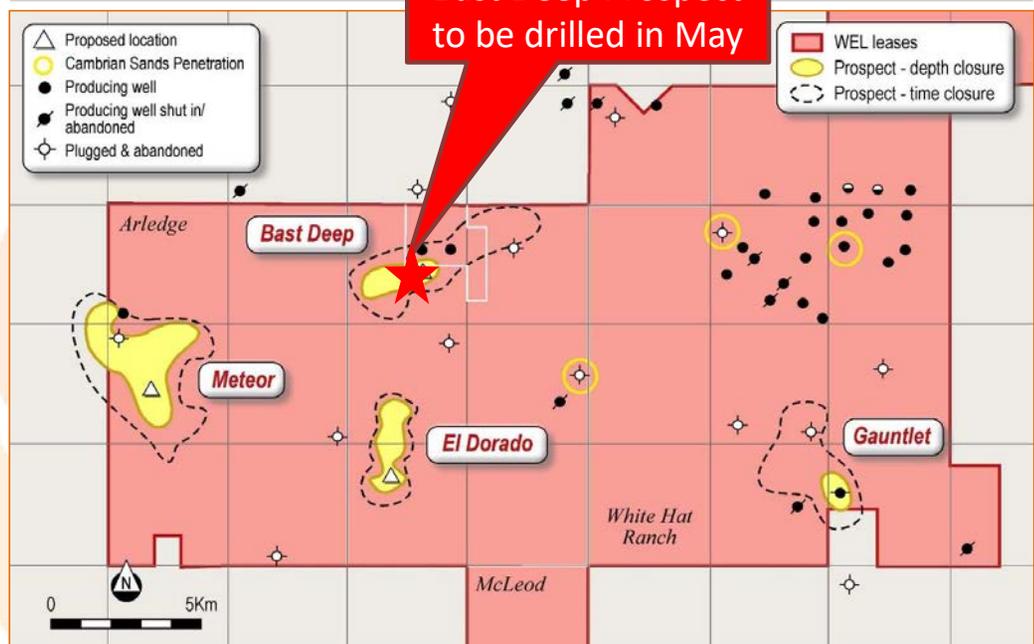
Nolan County Cambrian – High Impact Exploration Play

Cambrian Prospectivity - Regional

Cambrian Play

- Primary Target – Structural closures at Cambrian Sandstone level.
- This thick, porous widespread reservoir has produced from nearby fields. Structures 10 miles to the east have produced 15+ MMBO from the Cambrian Sandstone.
- All prospects are structural closures mapped on high quality 3D seismic.
- Three **off-structure** penetrations of the Cambrian on the 3D have good reservoir properties but were wet.
- The Cambrian sandstone is top sealed by the thick, largely tight Ellenburger Dolomite.
- Cambrian closures have associated Ellenburger, Odom and Strawn closures and targets.

Cambrian Prospects and Leads



Winchester Cambrian Prospects

Prospect	Gross Prospective Resource (Best Estimate; P50)	Gross Prospective Resource (High Estimate; P10)
Bast Deep	0.95 million boe	2.34 million boe
Meteor	1.94 million boe	4.69 million boe
El Dorado	1.36 million boe	3.52 million boe

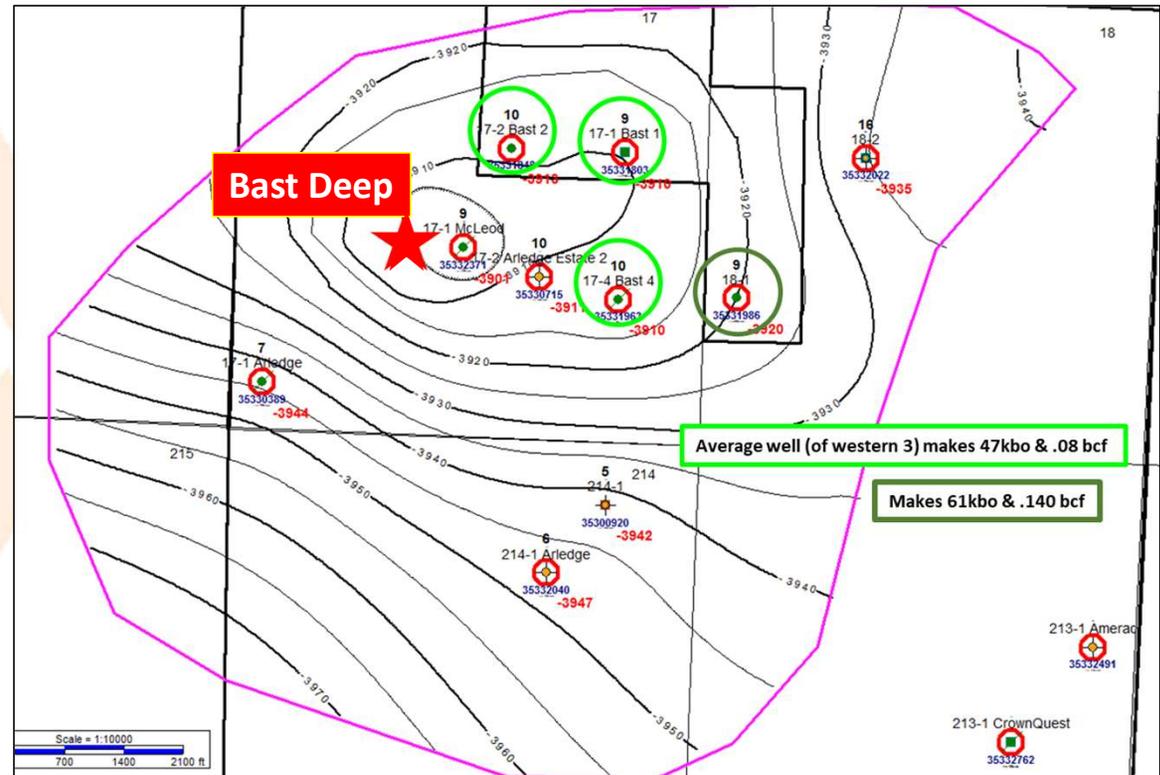
Bast Deep – Strawn Sands offer additional low risk target

Bast Deep well to also penetrate western side of existing oil field

Bast Deep

- Secondary Target is the Upper Strawn sandstone. This 10' sand has produced oil in four adjacent wells with an average ultimate recovery of 47,000 barrels per well.
- This sand is likely present at Bast Deep and up-dip to existing production.
- Additional targets - Ellenburger and Cisco oil pay is present in nearby wells.

Bast Field - Strawn Sst Depth Structure Map showing Production and proposed Bast Deep location.



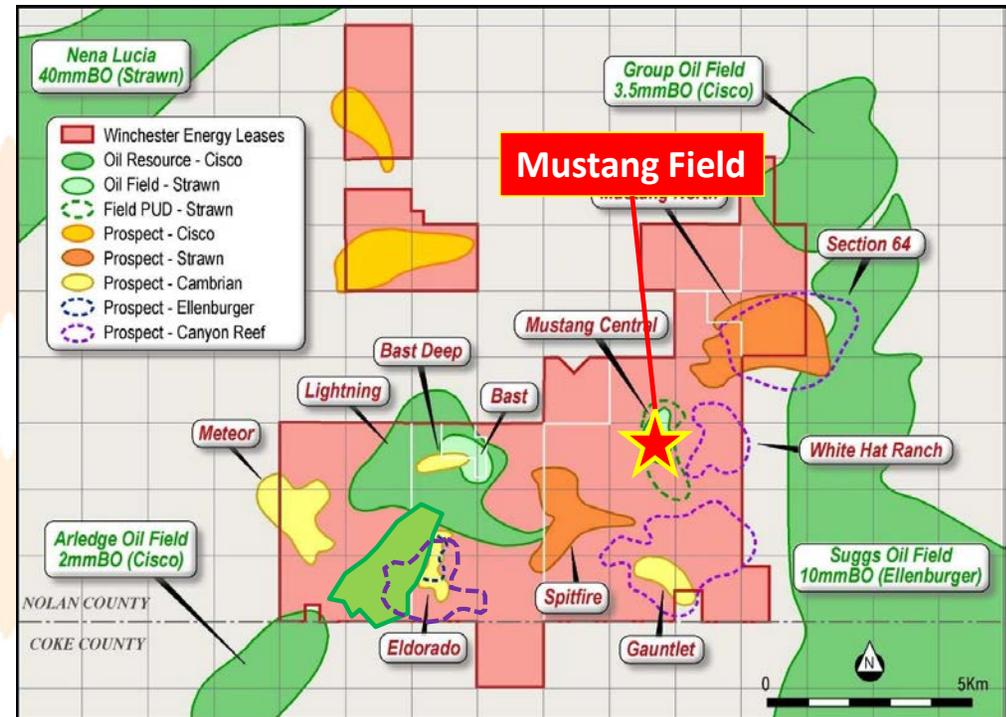
Upcoming Activity

- 2021 Q2/Q3 Program
 - ✓ Bast Deep
 - ✓ Mustang Development
 - ✓ Workovers

Nolan County Project – 2021 Q2/Q3 Program

Mustang development well – WHR 21-06

WHR 21-06	
Reserves (PUD)	74 mboe
Primary Target	Strawn (Fry Sand; 5,000- 6,000 ft)
Secondary Target	Ellenburger Fm (7,000 ft)
Additional Targets	None
Programmed Total Depth	7,200 ft
Estimated Costs (100%)	DHC: US\$350,000 Completion: US\$350,000
Estimated Spud Date	July 2021



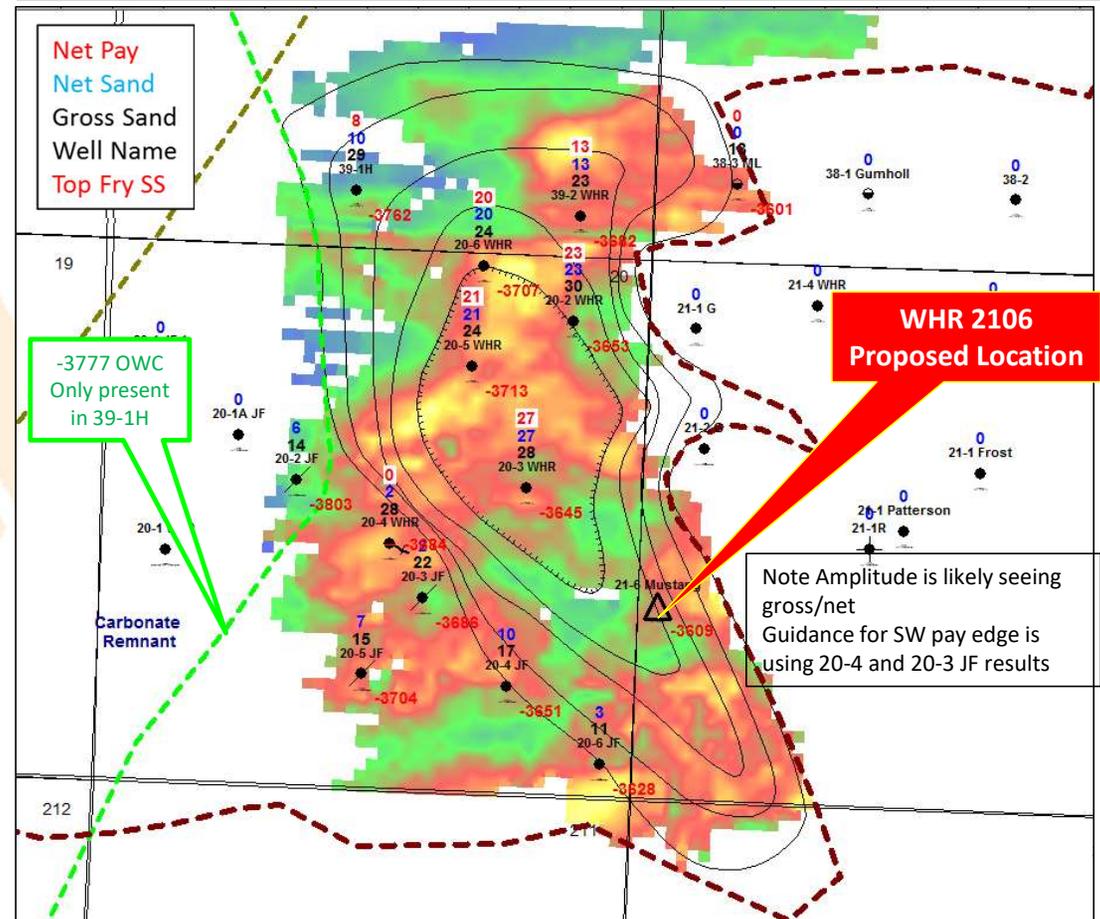
Objective: Fry Sand step-out development location

Fry Sand Step-out

Field Mapping

- The Mustang Oil Field is a stratigraphic trap formed by the up-dip pinch-out of the westerly dipping Fry Sst. The Fry was deposited from the adjoining shelf to the east via a series of incised channels, with the sands ponding at the base of the slope, typically in a NE-SW orientation.
- Deposition occurred in a number of separate pulses resulting in a number of discrete pods.
- The proven Mustang Central pod covers approx. 350 acres with up to six more drilling locations identified.

Fry Net Pay from Wells – Hilbert Amp Guidance



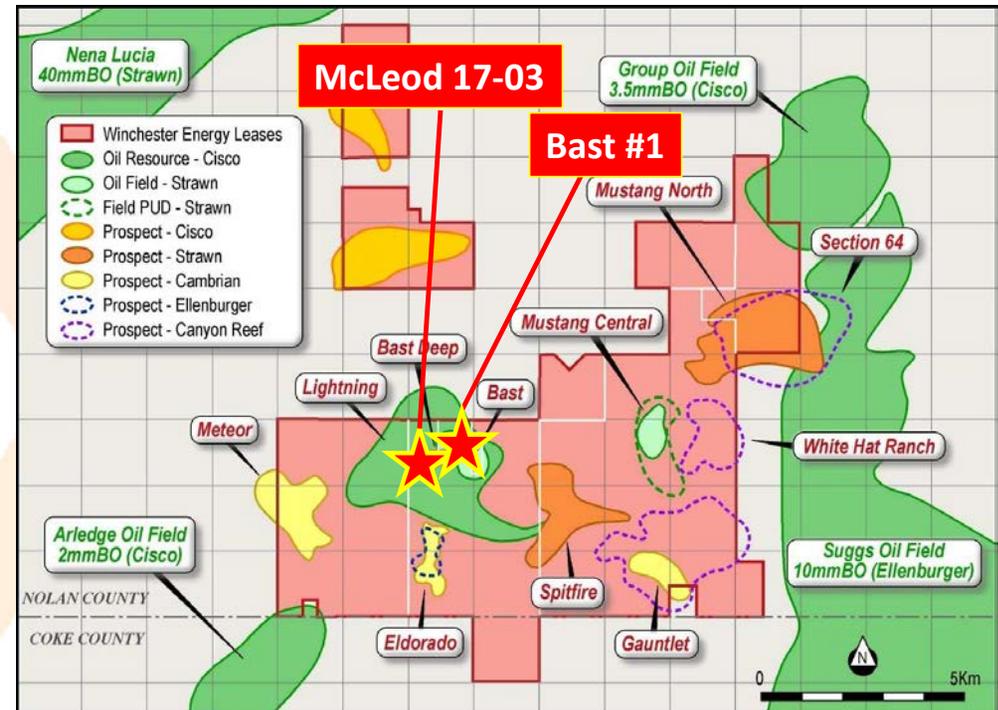
Upcoming Activity

- 2021 Q2/Q3 Program
 - ✓ Bast Deep
 - ✓ Mustang Development
 - ✓ Workovers

Nolan County Project – 2021 Q2/Q3 Program

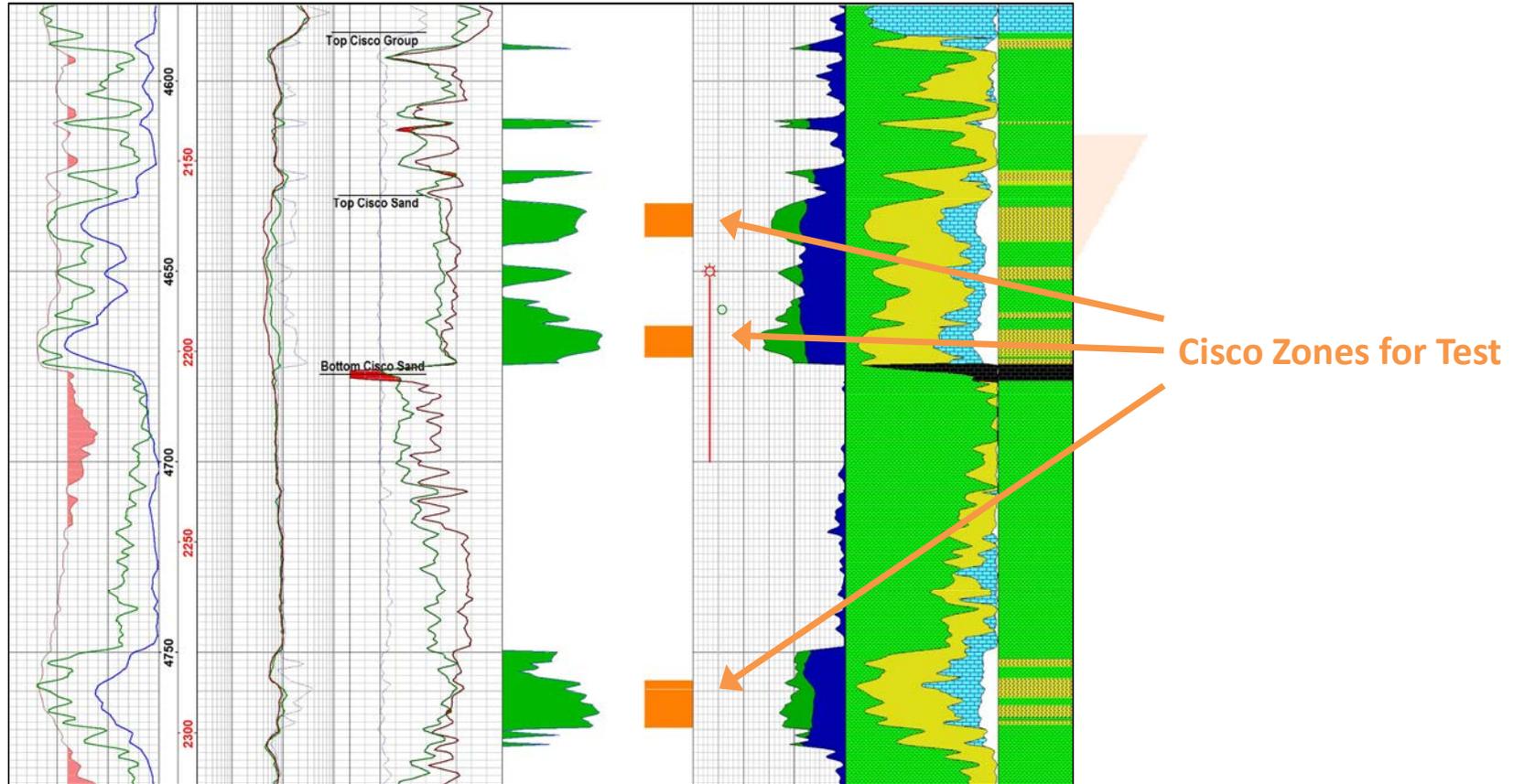
Workovers - fracture stimulate Cisco Sands

Bast #1 / McLeod 17-03 Workovers	
Estimated Recovery per well	15 mbo each
Primary Stimulation target	Cisco Sands
Secondary Target	None
Additional Targets	None
Estimated Workover Costs (100%)	US\$120K per well
Estimated Workover Date	April / June 2021

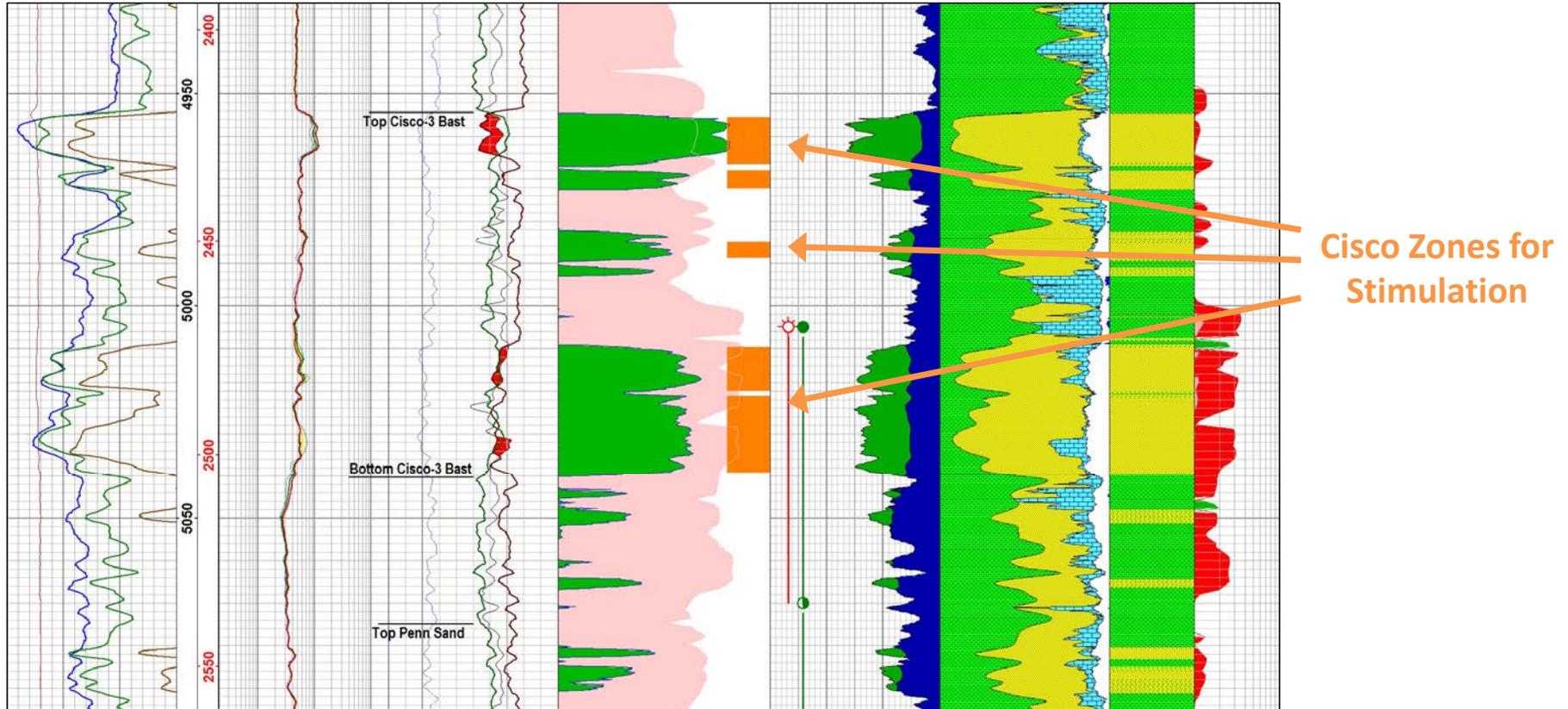


Objective: Low-risk workover to stimulate and improve existing Cisco production

Bast #1 proposed workover (log analysis identifies untested potential pay)



McLeod 17-03 proposed workover (log analysis identifies good, unstimulated pay)



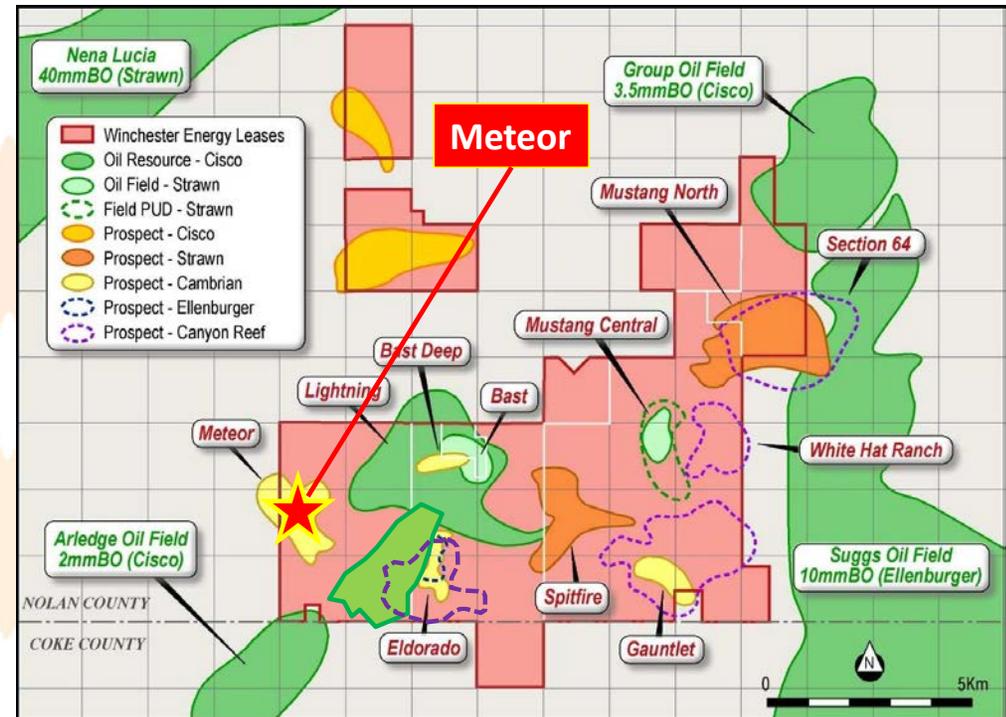
Nolan County Project

- 2021 Q3/Q4 Candidate Prospect Details
 - ✓ Meteor
 - ✓ Spitfire
 - ✓ El Dorado
 - ✓ Mustang North 63-01
 - ✓ Hurricane 64-02
 - ✓ Lightning Upper Cisco Horizontal

Nolan County Project – 2021 Q3/Q4 Program

Cambrian Prospect

Meteor	
Gross Prospective Resources ¹	1.94 mmboe (P50) 4.69 mmboe (P10)
Primary Target	Cambrian Sandstone (7,800 ft)
Secondary Target	Ellenburger Fm (7,000 ft)
Additional Targets	Odom
Programmed Total Depth	7,800 ft
Estimated Costs (100%)	DHC: US\$500,000 Completion: US\$350,000
Estimated Spud Date	2H 2021



Objective: To test potential 1.9 mmBO prospect (P50) in Cambrian four way dip structure

Notes:
1. Refer WEL ASX Release 16 March 2021.

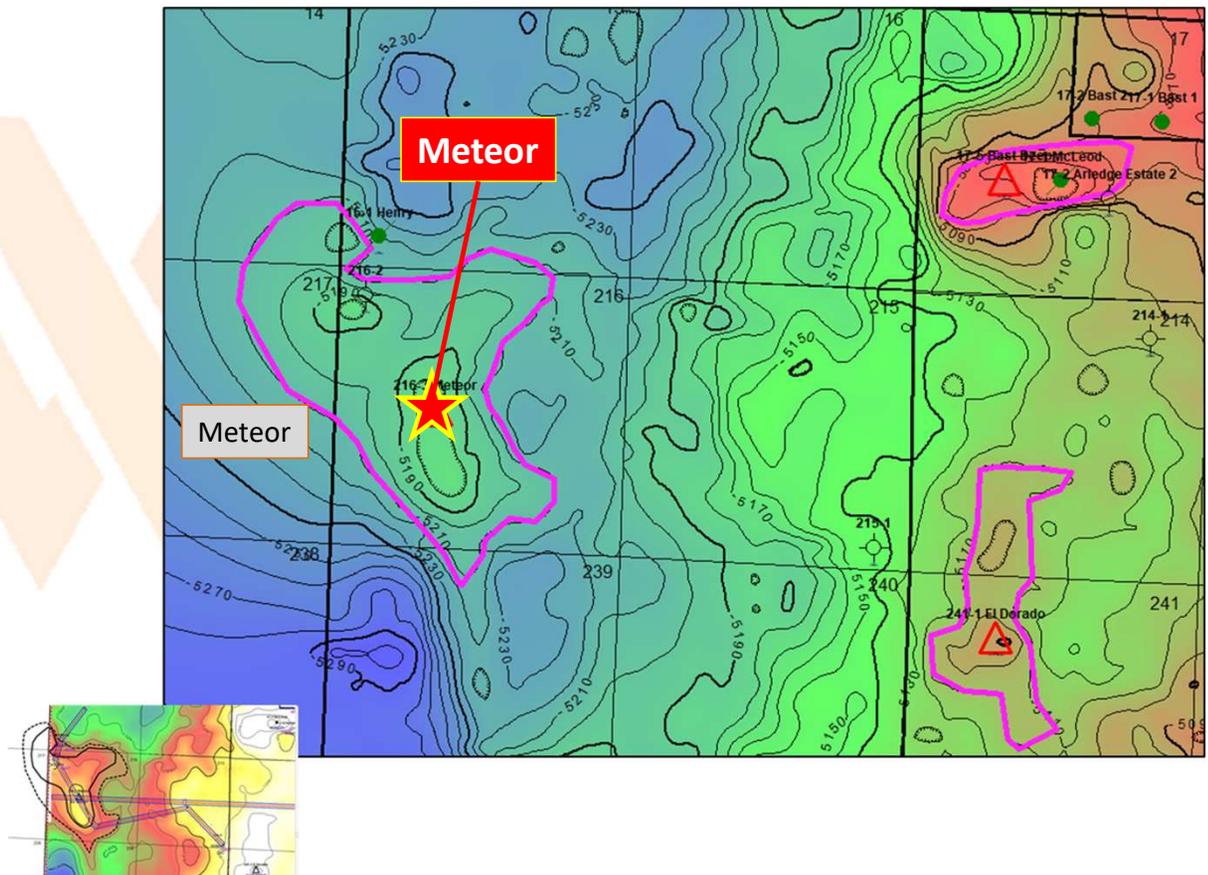
Meteor Prospect

High Impact Cambrian Test – 7,800 ft

Meteor

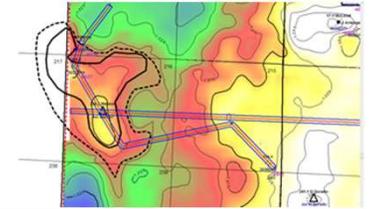
- **Primary Target - Cambrian Sandstone at 7,800 ft.**
- 4 way dip structural closure mapped on high quality 3D seismic.
- None of the local wells penetrate the Cambrian but out-of-structure Cambrian sands 5 miles to the east are thick with good porosity.
- A 40 foot closure is mapped over 300 acres.
- Secondary Targets – The overlying Ellenburger dolomite is also structurally closed and produced a minor amount of oil in the north edge of the prospect at the Henry well. Other shallow reservoirs are prospective.

Depth Structure Map – Top Cambrian Fm



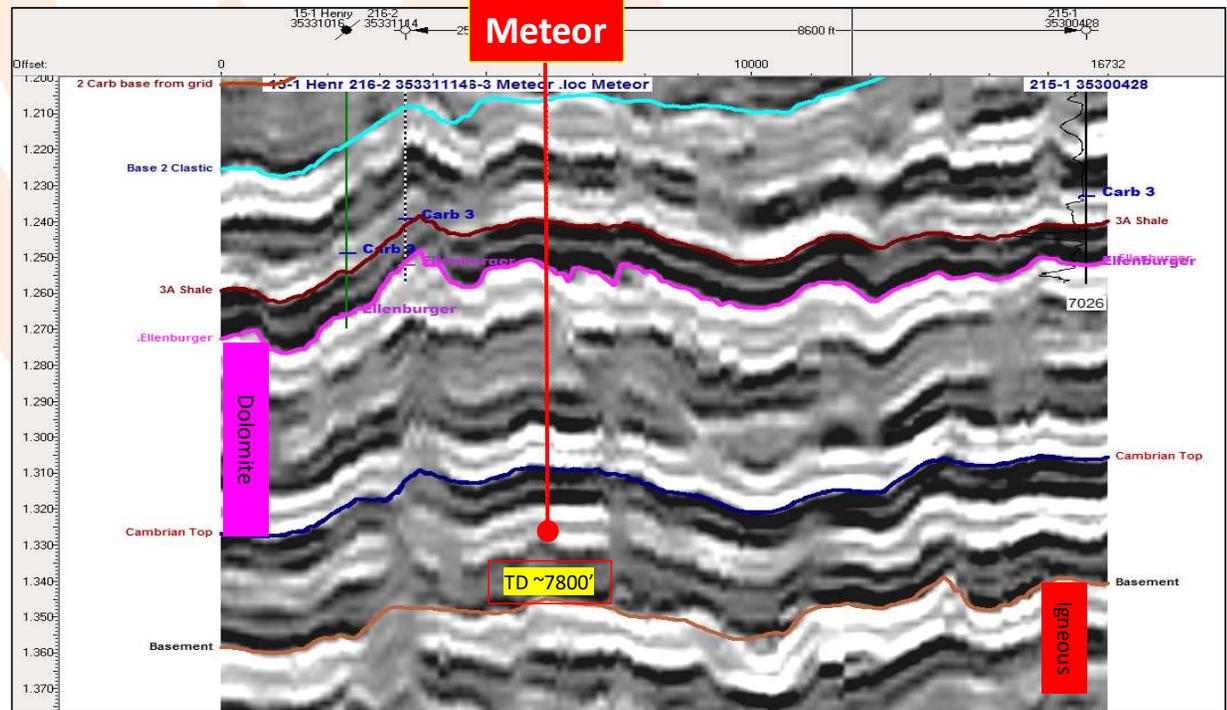
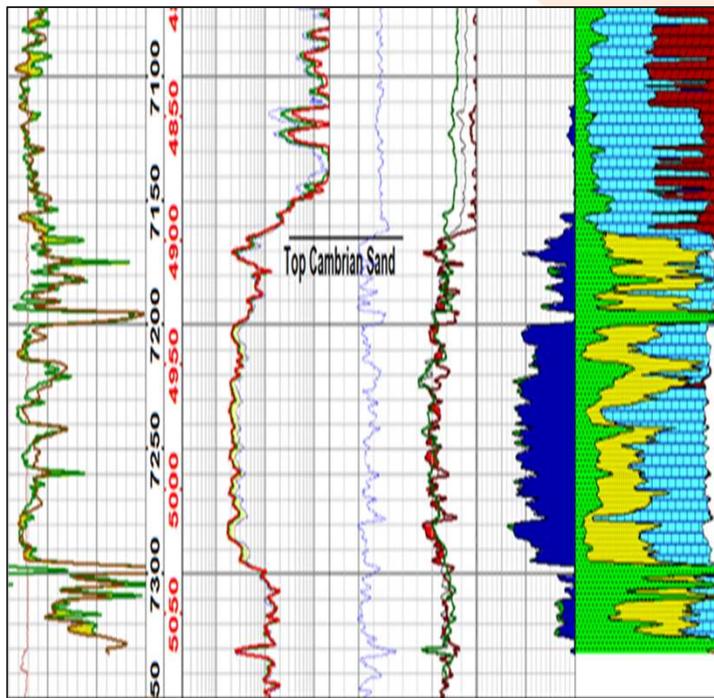
Meteor Prospect

High Impact Cambrian Test – 7,800 ft



21-2G Nearby Cambrian Penetration

Seismic Cross Section shown proposed Meteor location (Hilbert)



Nolan County Project

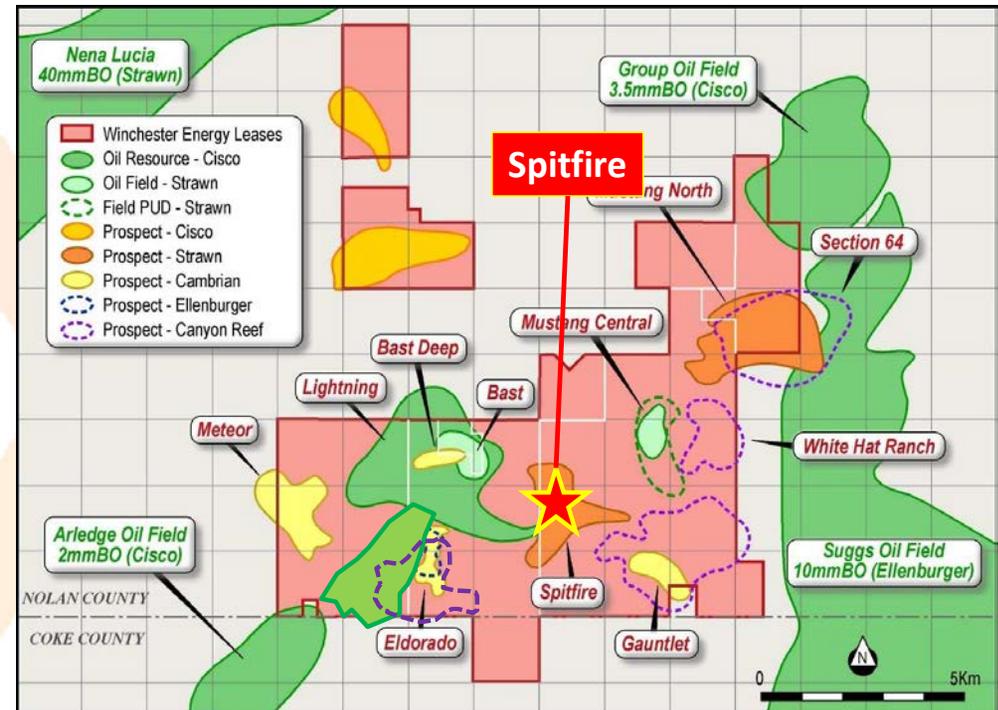
➤ 2021 Q3/Q4 Candidate Prospect Details

- ✓ Meteor
- ✓ Spitfire
- ✓ El Dorado
- ✓ Mustang North 63-01
- ✓ Hurricane 64-02
- ✓ Lightning Upper Cisco Horizontal

Spitfire Prospect

Strawn Channel Test – 7,200 ft

Spitfire	
Gross Prospective Resources ¹	2.7 mmoeb (P50) 6.0 mmoeb (P10)
Primary Target	Strawn Sandstone Channel (6,000 – 6,500 ft)
Secondary Target	Ellenburger Fm (7,000 ft)
Additional Targets	Nil
Programmed Total Depth	7,200 ft
Estimated Costs (100%)	DHC: US\$500,000 Completion: US\$350,000
Estimated Spud Date	2H 2021



Objective: To test channel sand anomaly, well defined by 3D seismic, in the Strawn stratigraphic section

Notes:
1. Refer WEL ASX Release 16 March 2021.

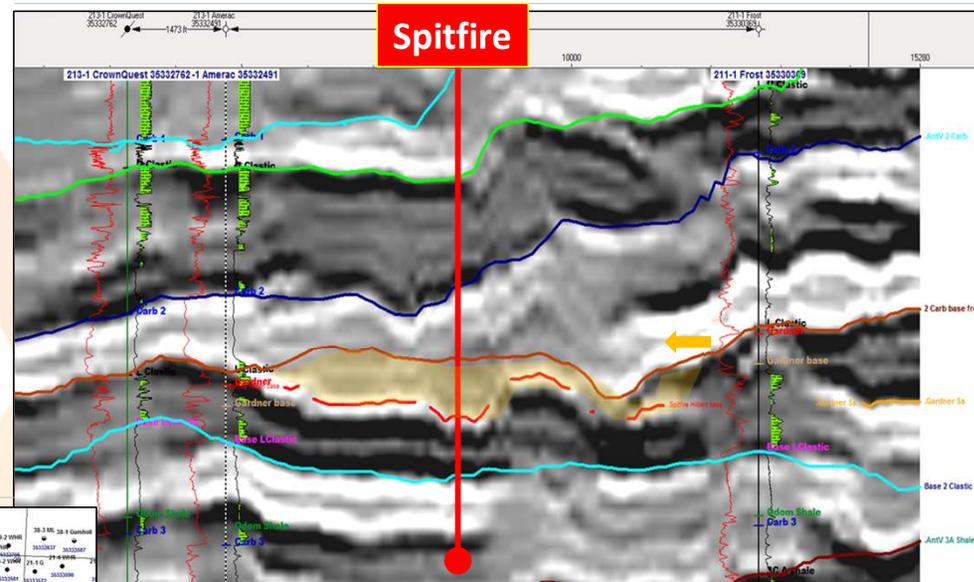
Spitfire Prospect

Strawn Channel Test – 7,200 ft

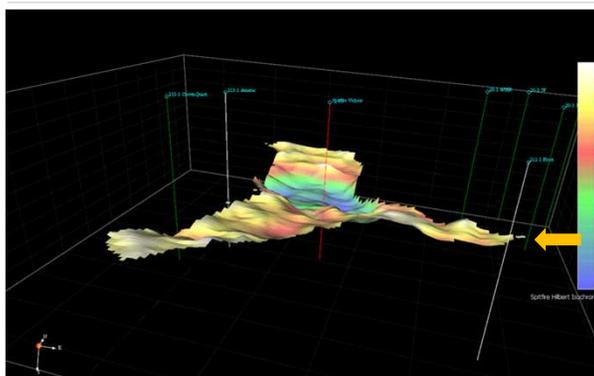
Spitfire

- The Spitfire Prospect will test a channel feature mapped on 3D seismic. The interval was penetrated at the channel edge in the McLeod 213 Amerac #1, where it penetrated 30 feet of gross sand with 7 feet of calculated pay. The interpreted target is anticipated to be up to 80 feet thick with an average net pay of 41 ft per Kurt Mire and Assoc.
- The prospect is also anticipated to have Penn Carb and Penn Shale secondary targets.
- Fractured Ellenburger remains an exploration target.

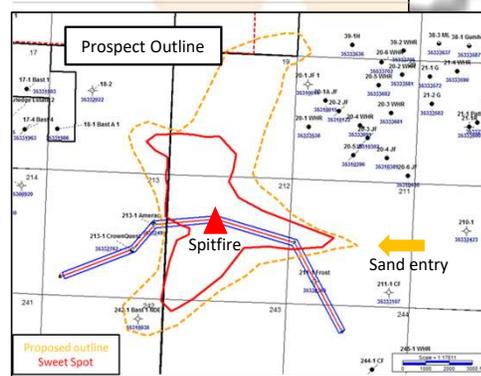
Spitfire – Seismic Interpretation



Isochron in 3D



Prospect Outline



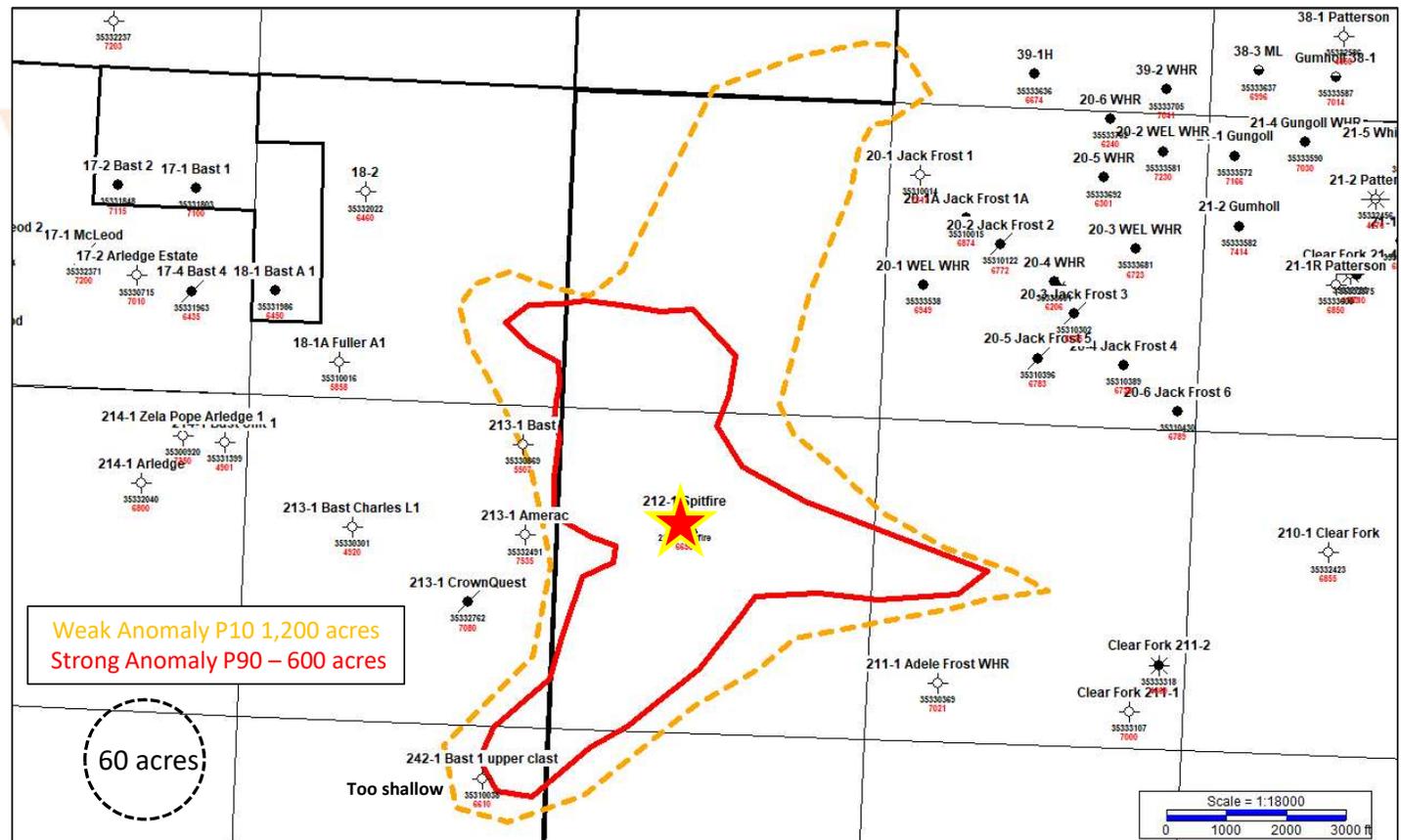
Spitfire Prospect

Strawn Channel Test – 7,200 ft; Seismic Anomaly Extent

Spitfire – Mapped Anomaly

Spitfire - 3D Seismic Definition

- Prospect is defined on high quality 3D seismic and covers up to 1,200 acres.
- Prospective areas (used in resource assessment):
 - P90 = 320 ac;
 - P10 = 1,050 ac
- Calibration with wells ties the anomaly to the very top of the 2 Clastic stratigraphically below Mustang to the east.



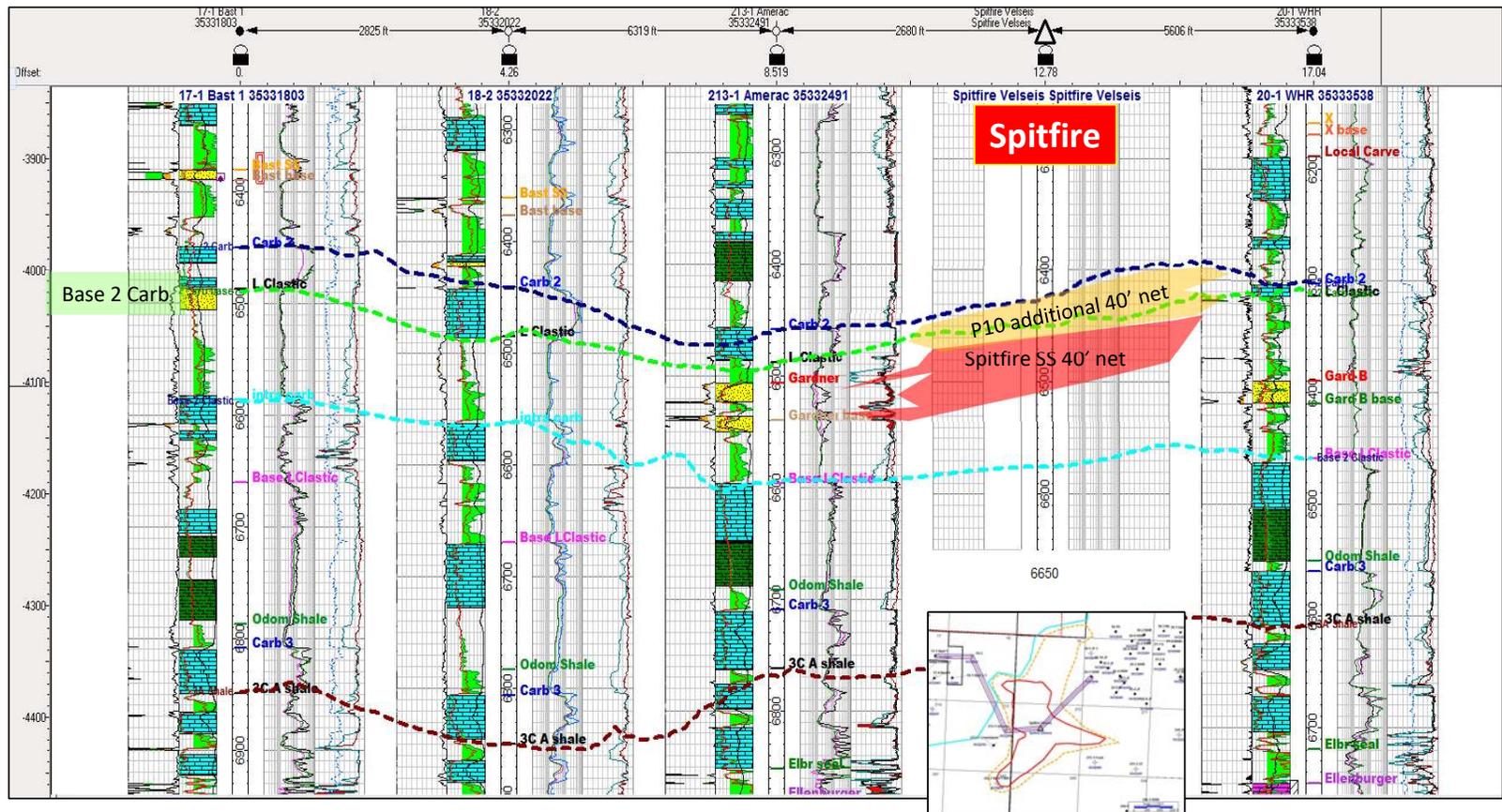
Spitfire Prospect

Drill Location Correlation

Spitfire Prospect - Correlation

Spitfire

- The seismic anomaly is at the same level as the thin tight Gardner stringers at 213-1 Amerac, which may be oil bearing.
- The well to the east at Mustang are tight shale and limestone at this level.
- The thickness of the potential sand is at least 50' (40' net) - and double this size is possible in a P10 case.
- Sands of this thickness at this level are rare but are seen to the northeast in Section 71 .



Nolan County Project

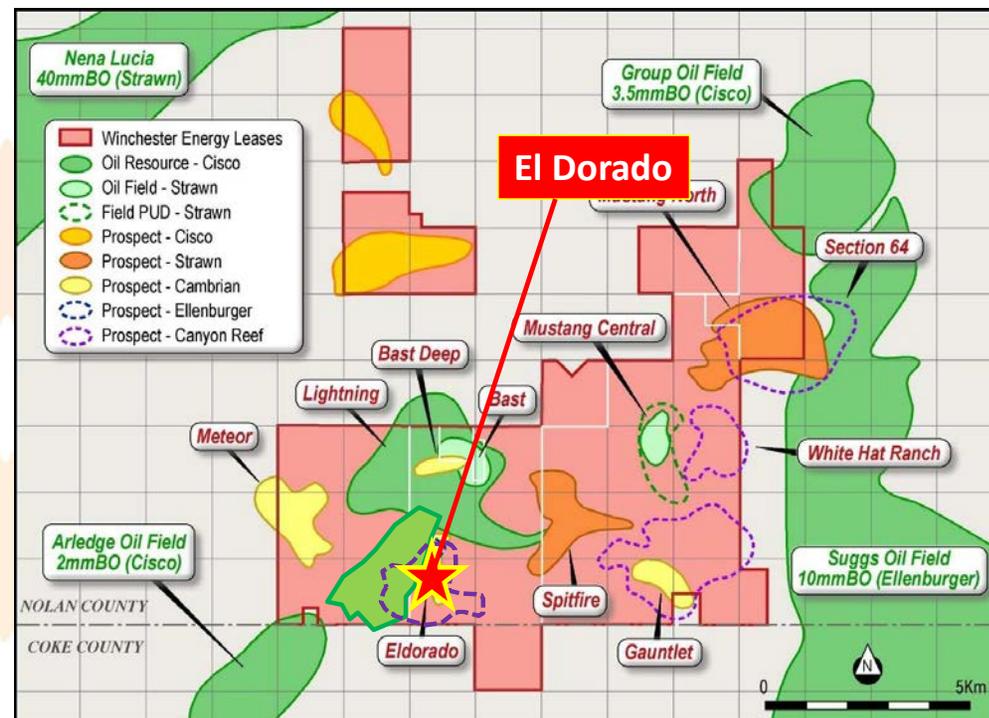
➤ 2021 Q3/Q4 Candidate Prospect Details

- ✓ Meteor
- ✓ Spitfire
- ✓ **El Dorado**
- ✓ Mustang North S63
- ✓ Mustang North (Hurricane) 64-02
- ✓ Lightning Upper Cisco Horizontal

El Dorado Prospect

Cambrian / Ordovician Test – 8,000 ft

El Dorado	
Gross Prospective Resources ¹	1.36 mmbbl (P50/Best Estimate) 3.52 mmbbl (P10/High Estimate)
Primary Targets	Cambrian Sandstone Ellenburger Fm (7,000 ft)
Secondary Target	Cisco Sands (4,000 – 4,800 ft)
Additional Targets	Odom
Programmed Total Depth	8,000 ft
Estimated Costs (100%)	DHC: US\$500,000 Completion: US\$350,000
Estimated Spud Date	2H 2021



Objective: To test multiple closed targets on untested El Dorado Structure

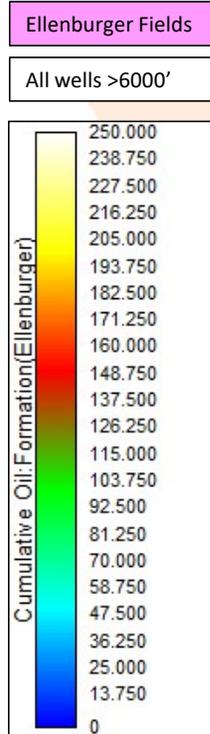
Notes:
1. Refer WEL ASX Release 16 March 2021.

El Dorado Prospect

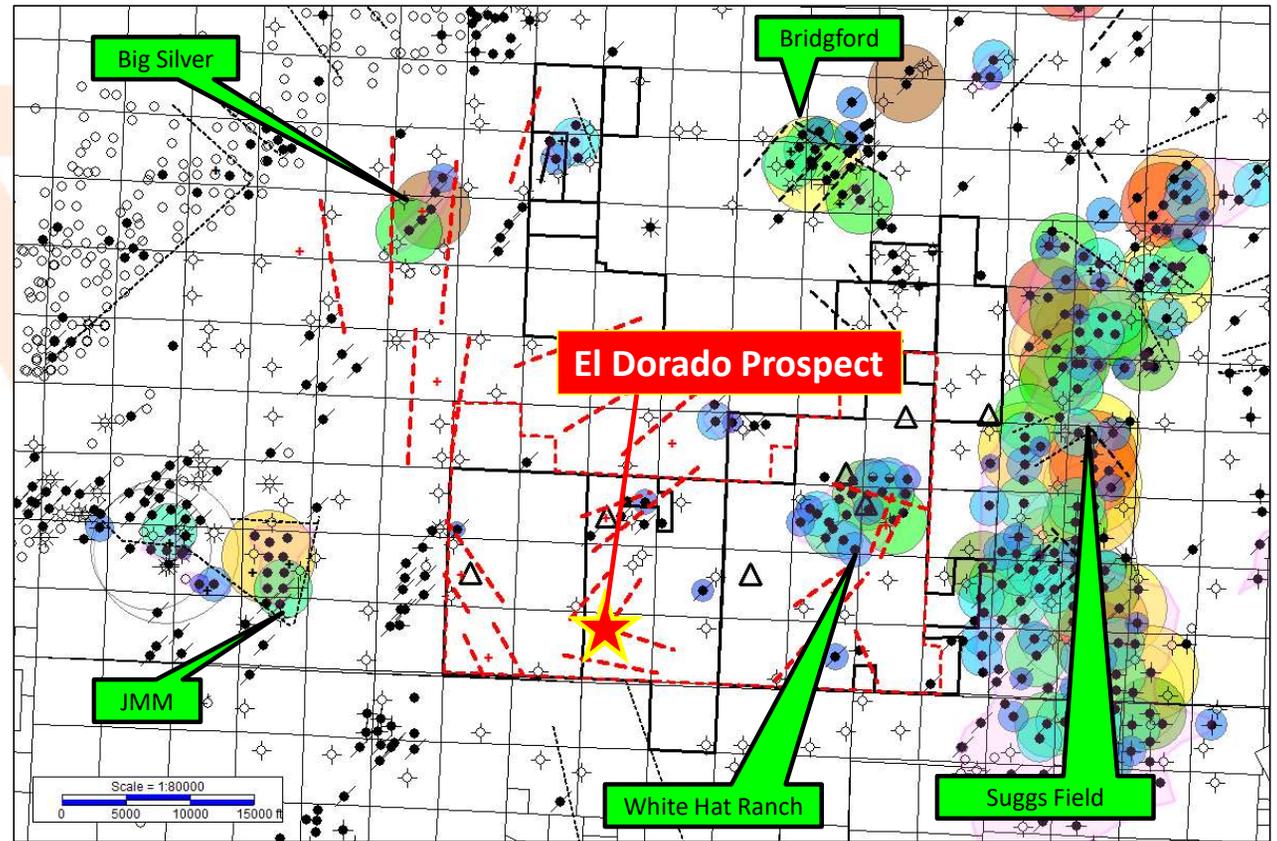
Cambrian / Ordovician Test – 8,000 ft

El Dorado Prospect

- Closed structure of over 1000 ac.
- Ellenburger shows structural closure and processing has suggested changes in velocity of the carbonates that may correspond to potential areas of fracture and potentially karstification.
- El Dorado is located at the convergence of a number of faults / lineaments. Winchester's analysis suggests that such a position is typically associated with improved Ellenburger porosity.
- Four way closure also mapped at the Cambrian sand level
- Mapped closure at the Upper Cisco Sand productive in the recently discovered Lightning field
- A potential reef development can be seen at the Odom level on the Structural high



Ellenburger Formation Fields, Lineaments and Cum Production



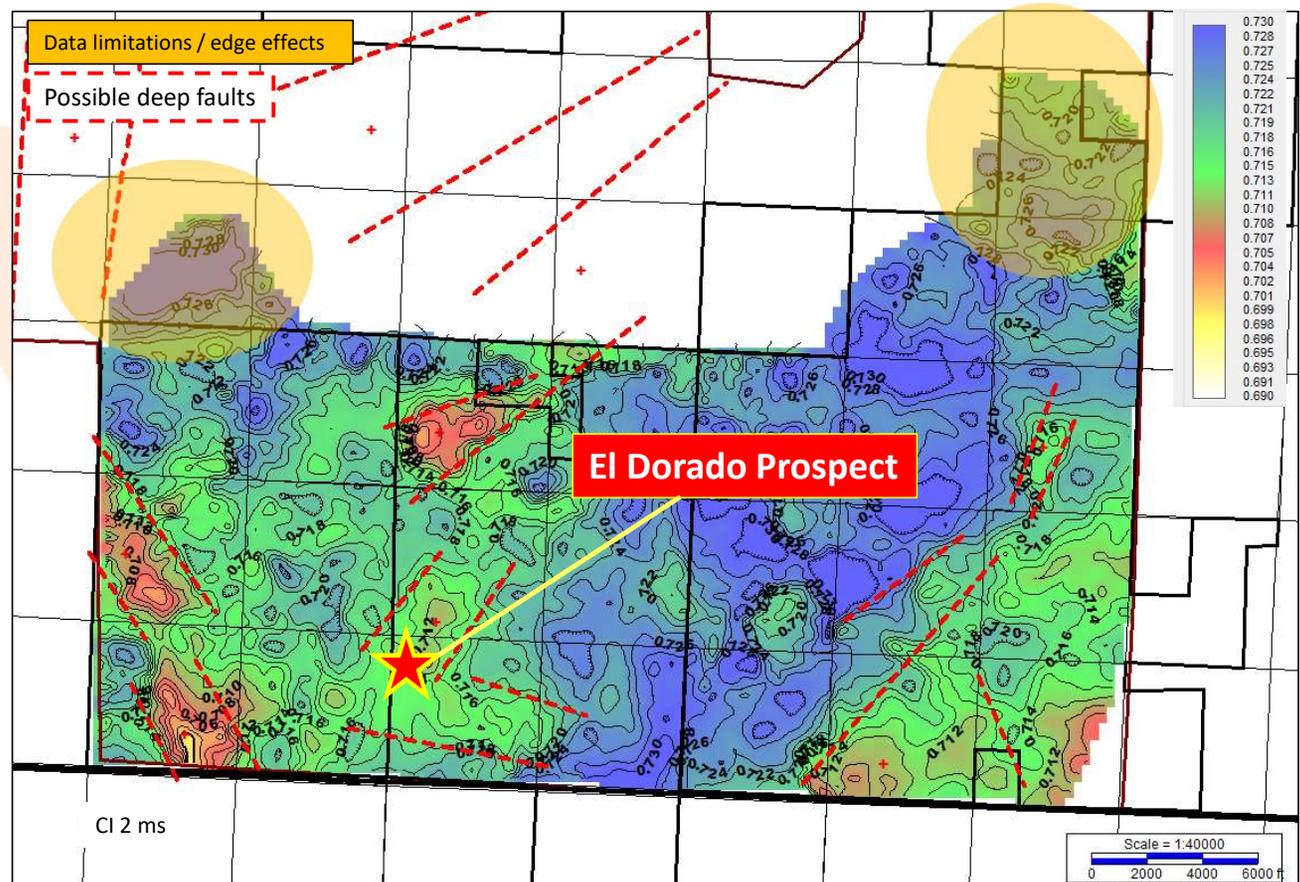
El Dorado Prospect

Cambrian / Ordovician Test – 8,000 ft

El Dorado Prospect - Ellenburger

- The superior data quality of the South Antelope cube allows an isochron to the Ellenburger but the isochron to the Cambrian is similar
- The mapped paleo highs are more robust and small features are imaged.
- Mapping clearly defines paleo structures and lineaments – the NE corner of the cube is still problematic and is discounted
- Four way closure mapped at the Cambrian sand level

Isochron Map: Interval from Big Red Shale to Ellenburger Formation



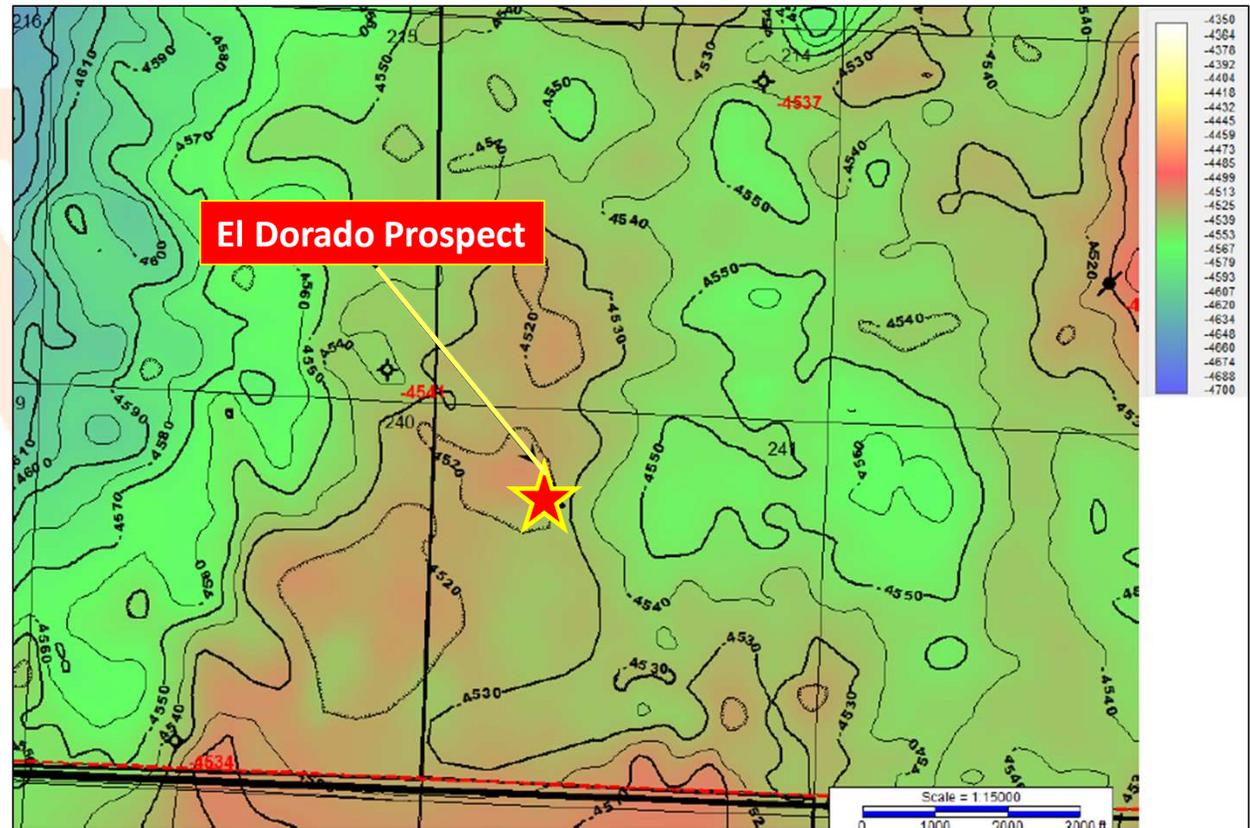
El Dorado Prospect

Cambrian / Ordovician Test – 8,000 ft

El Dorado Prospect

- El Dorado - closed structure of over 1000 acres
- Ellenburger shows structural closure and processing has suggested changes in velocity of the carbonates that may correspond to potential areas of fracture and potentially karstification.
- Four way closure also mapped at the Cambrian sand level
- Mapped closure at the Upper Cisco Sand productive in the recently discovered Lightning field
- A potential reef development can be seen at the Odom level on the Structural high

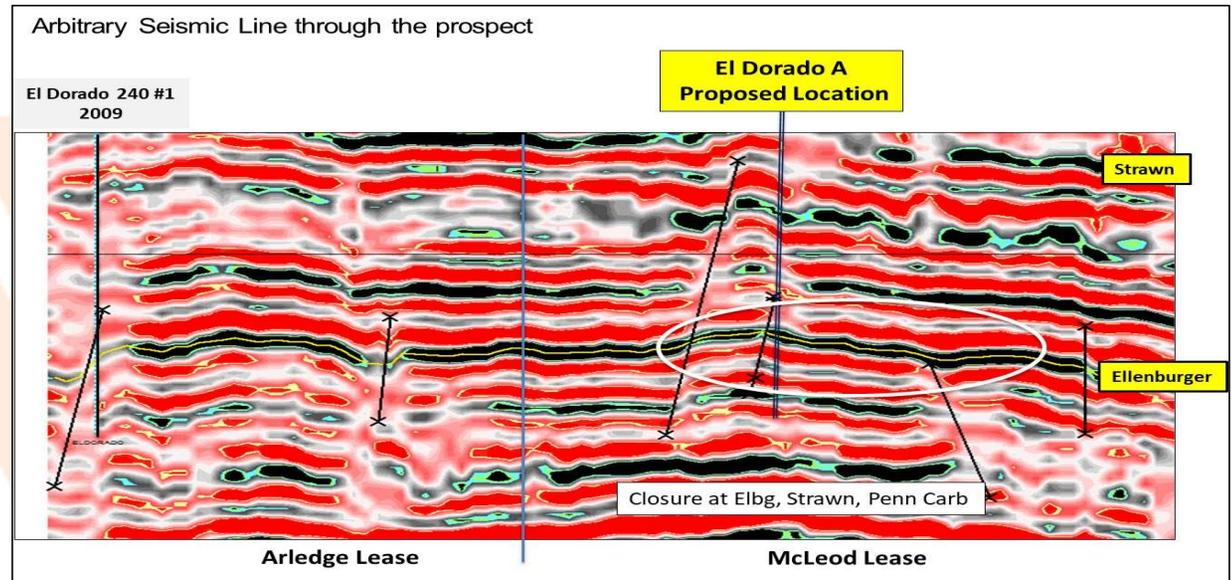
Depth Structure Map – Top Ellenburger Formation



El Dorado Prospect

El Dorado Prospect

- El Dorado - closed structure of over 1000 acres
- Ellenburger shows structural closure and processing has suggested changes in velocity of the carbonates that may correspond to potential areas of fracture and potentially karstification.
- Four way closure also mapped at the Cambrian sand level
- Mapped closure at the Upper Cisco Sand productive in the recently discovered Lightning field
- A potential reef development can be seen at the Odom level on the Structural high

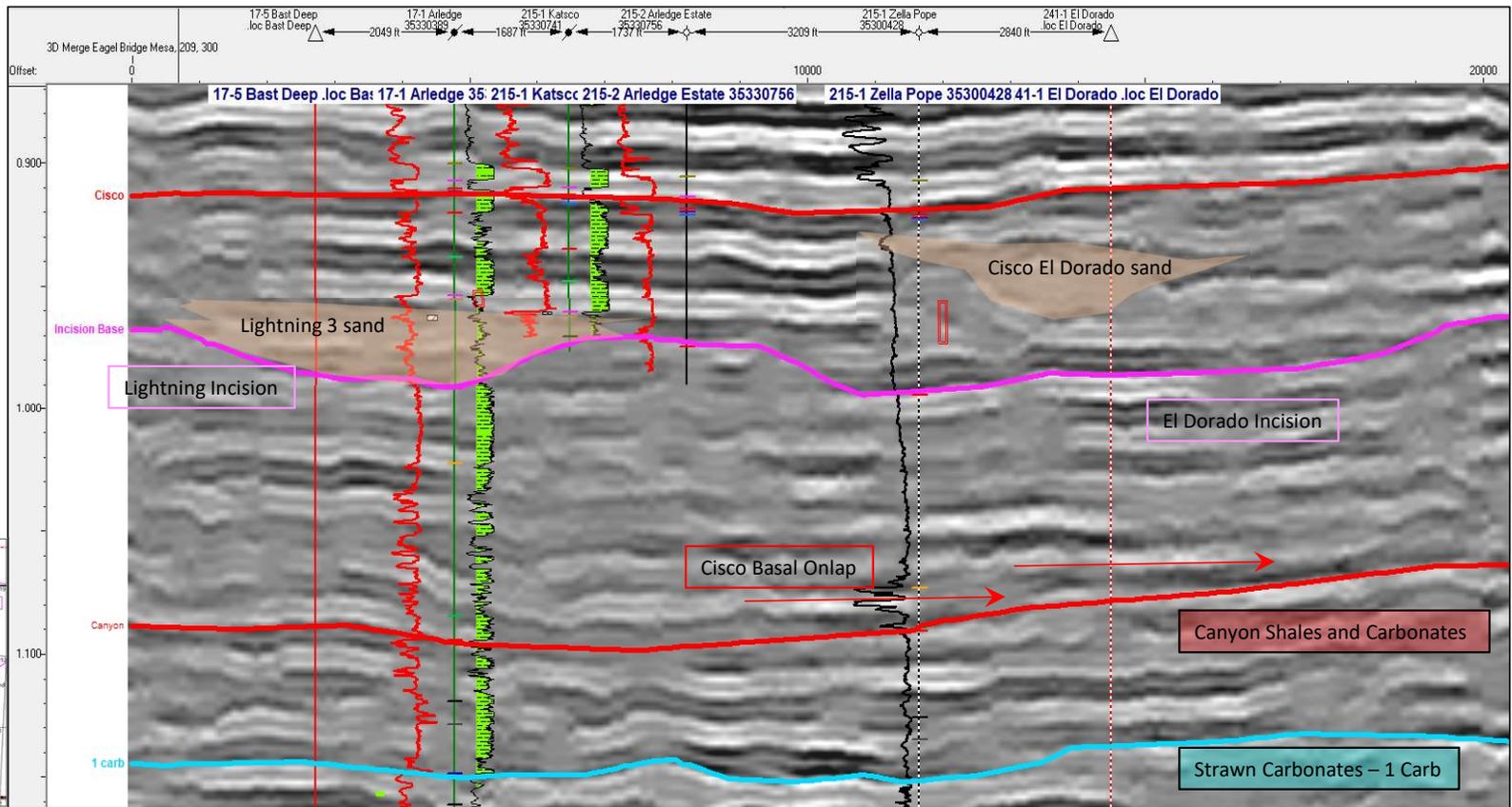


Cisco Sands - El Dorado Incision – Traverse from Lightning

El Dorado Prospect

- Cisco Sand potential at El Dorado based on well location that should intersect interpreted Cisco Sand Channel – separate from Lightning Cisco.
- Possible tight oil play.

El Dorado Seismic Section – Cisco incision



Nolan County Project

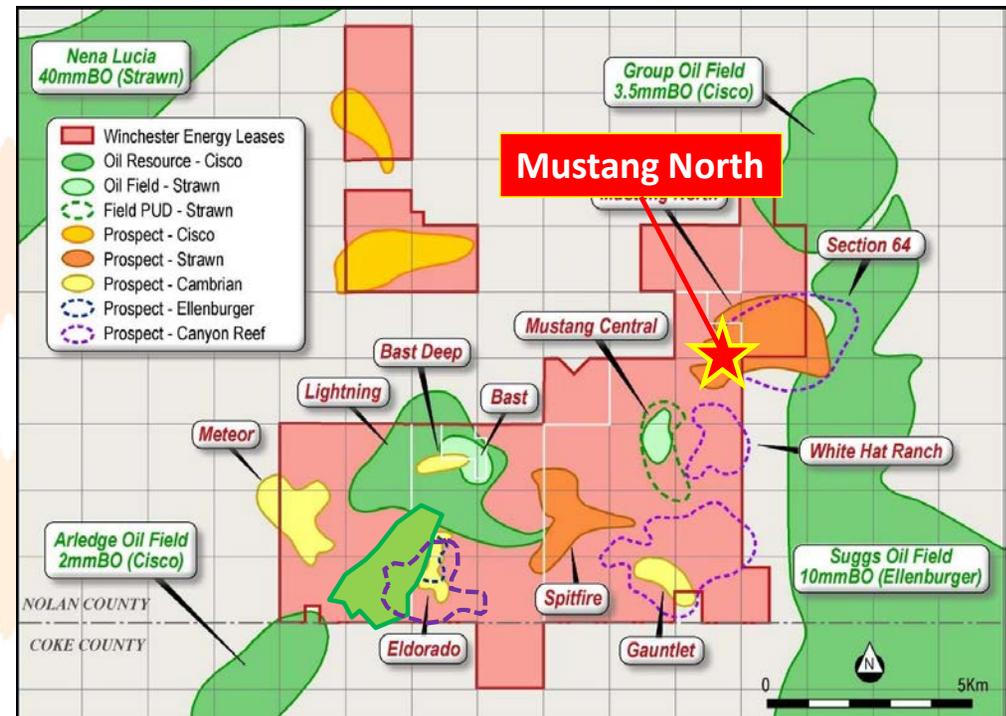
➤ 2021 Q3/Q4 Candidate Prospect Details

- ✓ Meteor
- ✓ Spitfire
- ✓ El Dorado
- ✓ **Mustang North S63**
- ✓ Hurricane 64-02
- ✓ Lightning Upper Cisco Horizontal

Mustang North Prospect - WHR 6301

WHR 6301 - Low-risk field extension

Mustang North - WHR 6301	
Gross Prospective Resources ¹	623 mboe (P50/Best Estimate) 1,344 mboe (P10/High Estimate)
Primary Targets	Strawn (Fry Sand; 5,000- 6,000 ft)
Secondary Target	Canyon Reef; Ellenburger Fm
Additional Targets	Nil
Programmed Total Depth	7,200 ft
Estimated Costs (100%)	DHC: US\$350,000 Completion: US\$350,000
Estimated Spud Date	2H 2021



Objective: To test Strawn Sands including the productive Fry sand, updip and one section from the Mustang Field

Notes:
1. Refer WEL ASX Release 16 March 2021.

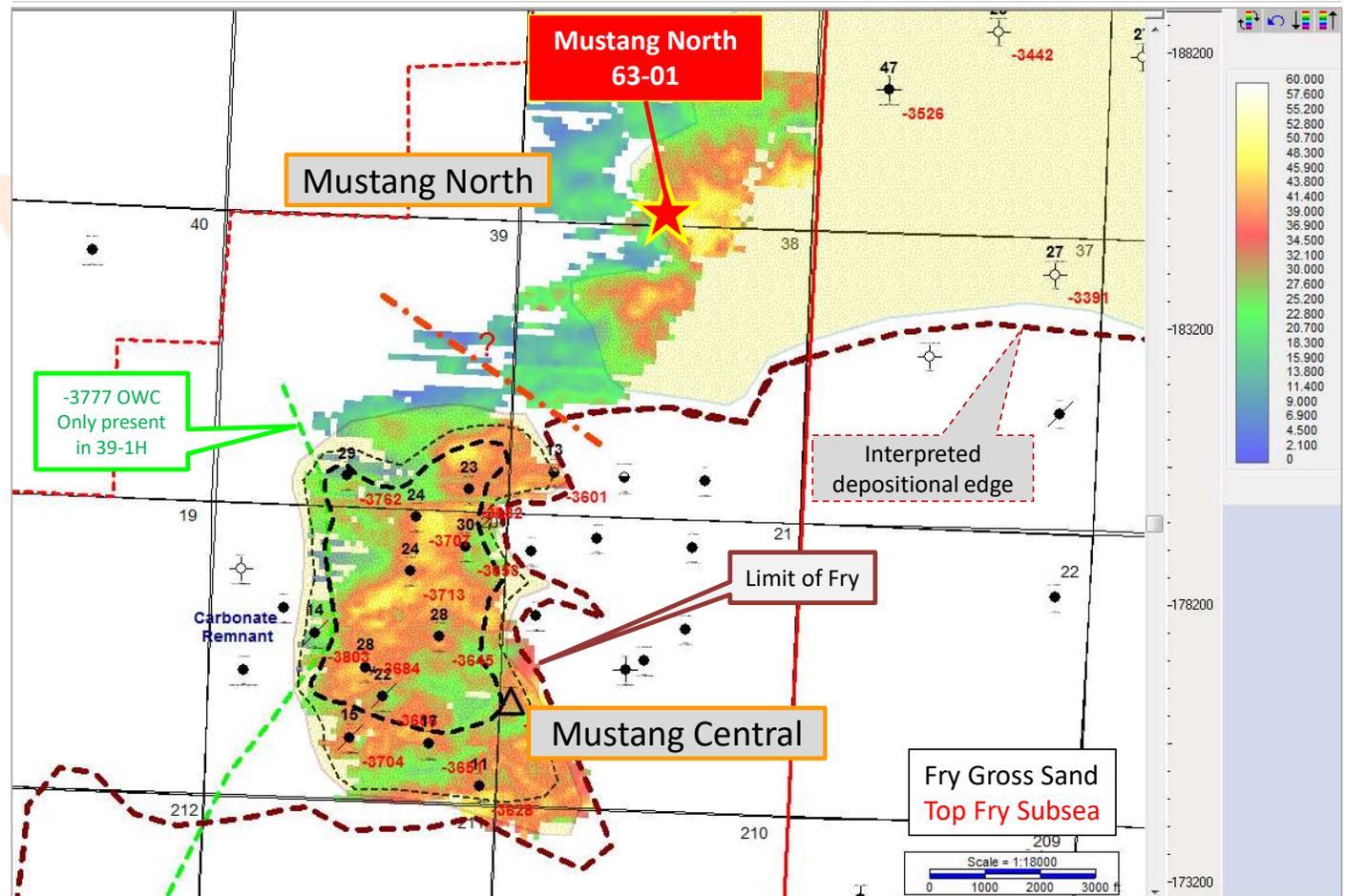
Mustang North Prospect - WHR 6301

WHR 6301

WHR 6301 - Mustang North

- Remapping of 3D seismic indicates productive trend at Mustang Central potentially extending to the north-east into Sections 38 and 63.
- Initial Mustang North drilling location in Section 63 defined on 3D seismic

Amplitude – Top Fry (Hilbert) – Gross Sand Overlay



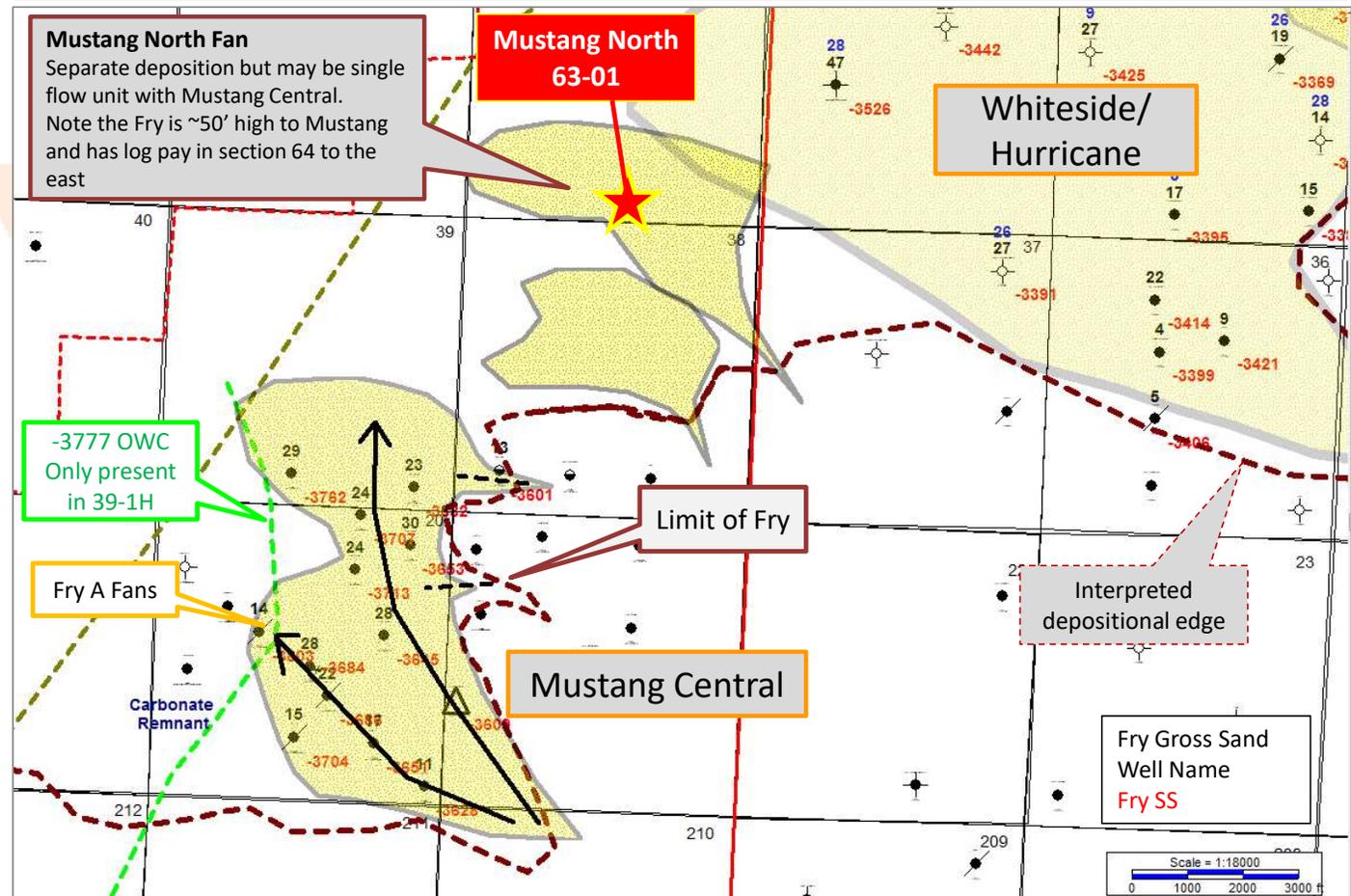
Mustang North Prospect - WHR 6301

Low-risk field extension

WHR 6301 - Mustang North

- Remapping of 3D seismic indicates productive trend at Mustang Central potentially extending to the north-east into Sections 38 and 63.
- Initial Mustang North drilling location in Section 63 defined on 3D seismic

Fry Interpreted Fans – Mustang – Mustang North and Extension



Nolan County Project

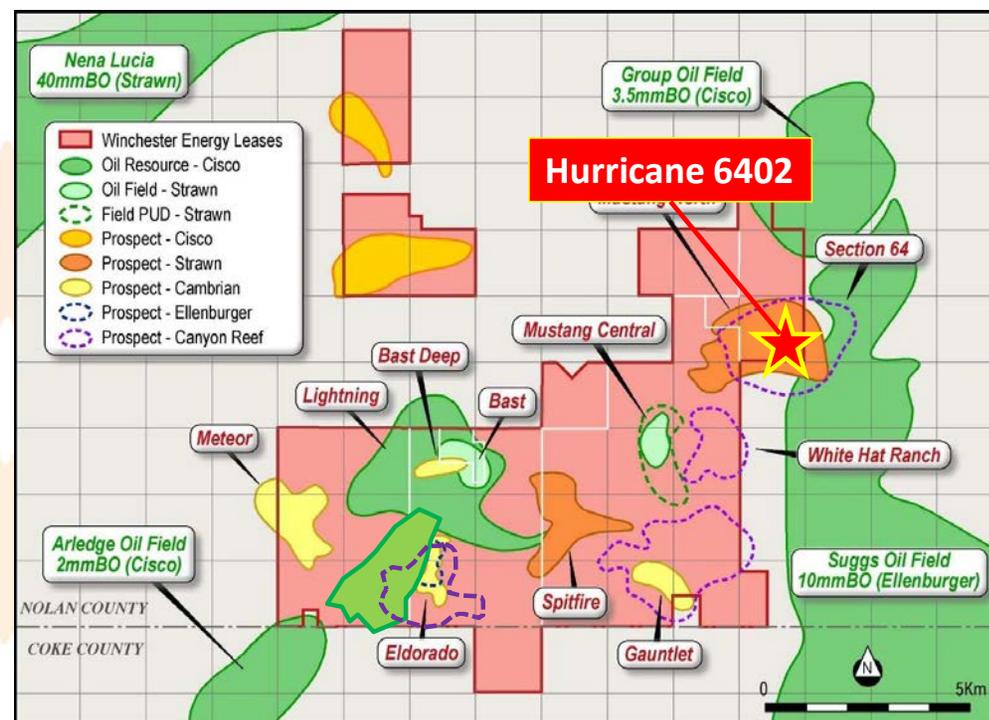
➤ 2021 Q3/Q4 Candidate Prospect Details

- ✓ Meteor
- ✓ Spitfire
- ✓ El Dorado
- ✓ Mustang North 63-01
- ✓ Hurricane 64-02
- ✓ Lightning Upper Cisco Horizontal

Hurricane Prospect

Canyon Reef and Fry potential with substantial follow-up

Hurricane 64-02	
Gross Prospective Resources ¹	1.04 mmboe (P50/Best Estimate) 1.91 mmboe (P10/High Estimate)
Primary Target	Canyon Reef
Secondary Target	Fry Sand
Additional Targets	Ellenburger Fm (7,000 ft)
Programmed Total Depth	6,900 ft
Estimated Costs (100%)	DHC: US\$500,000 Completion: US\$350,000
Estimated Spud Date	2H 2021



Objective: Test Canyon Reef and Fry sandstones stratigraphically trapped up-dip from Mustang plus deeper objectives

Notes:
1. Refer WEL ASX Release 16 March 2021.

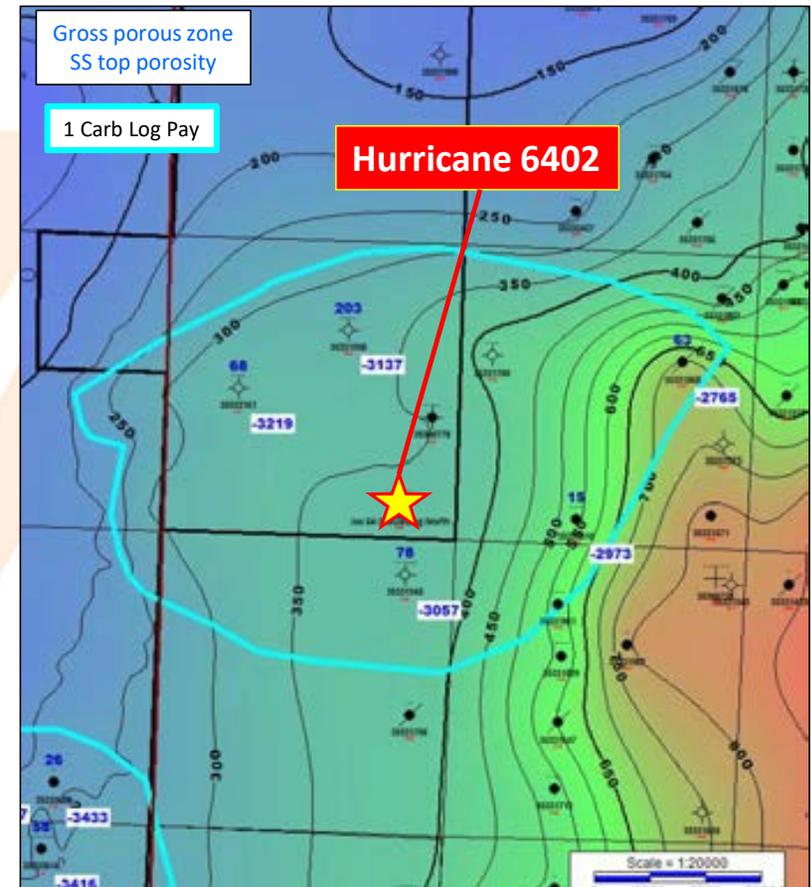
Hurricane Prospect

Canyon Reef Potential

Mustang North – Hurricane 64-02

- Prospective area covers 1,300 acres (from well control). There are five wells in the area with log pay; net pay ranges up to 200 ft and is expected to average at least 20'.
- The proposed Hurricane 6402 well is located within the prospect area with net pay expected to exceed 80 feet.
- The two wells off WEL current acreage in S65 are thinner and less certain on logs.

Isopach - 1 Carbonate (Canyon Reef)

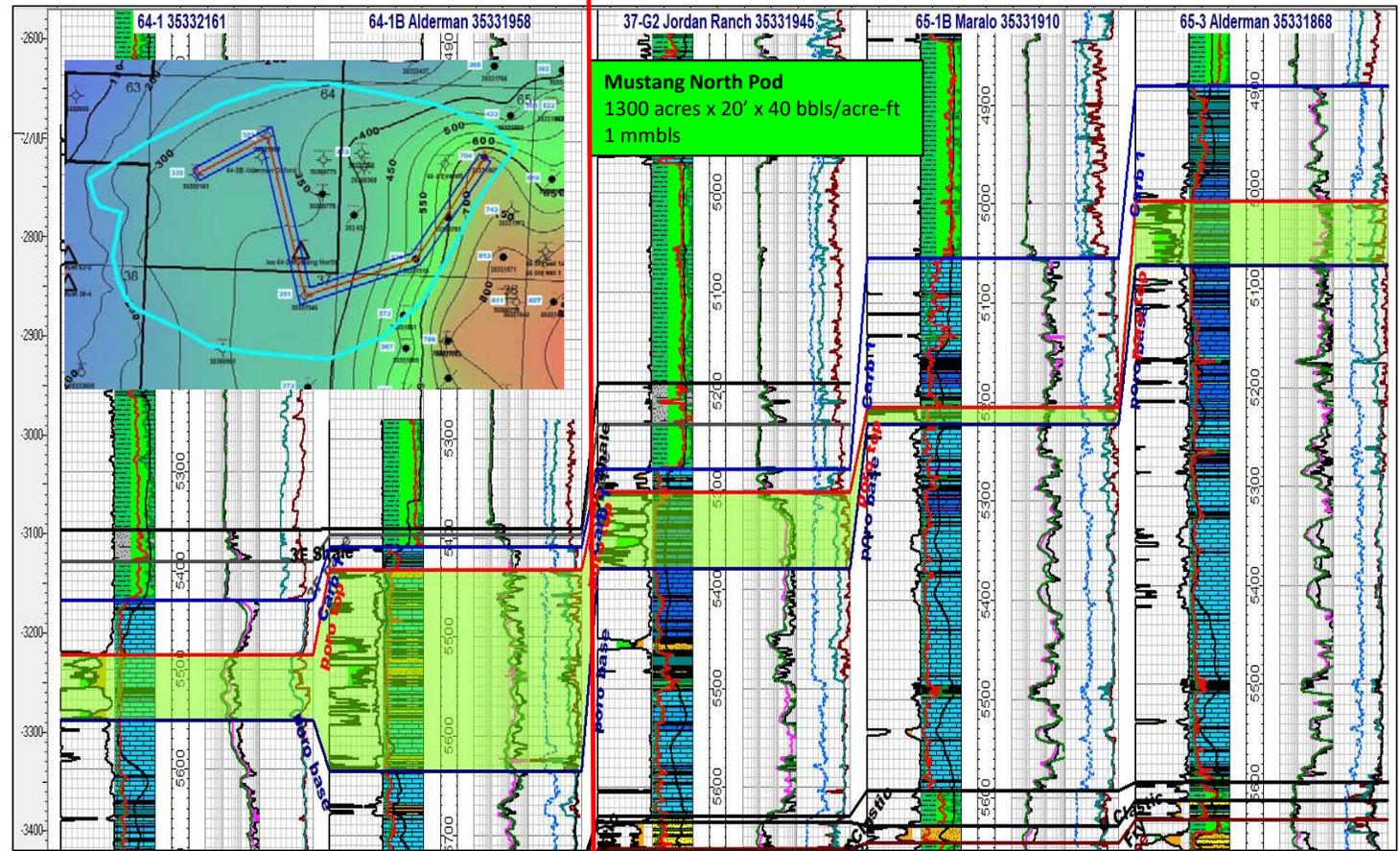


Hurricane Prospect

Canyon Reef Potential

Stratigraphic Cross section – Canyon Reef

6402 PL

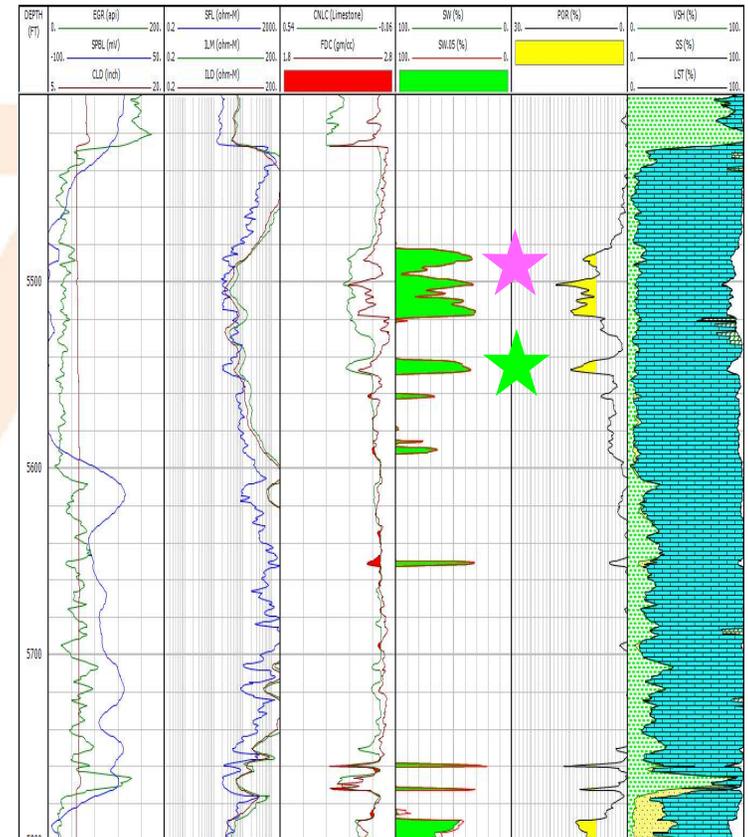
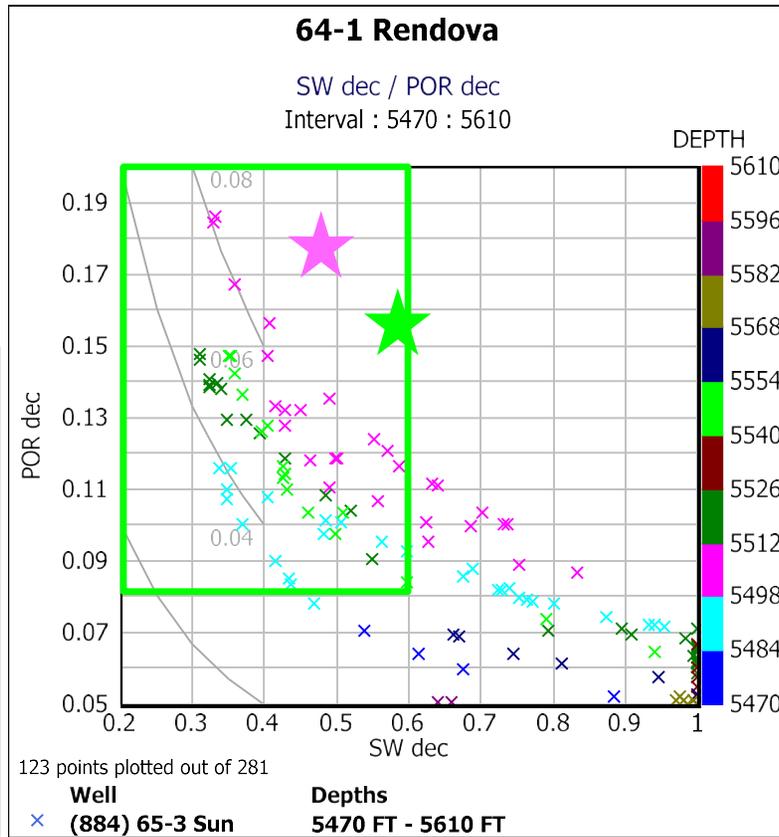
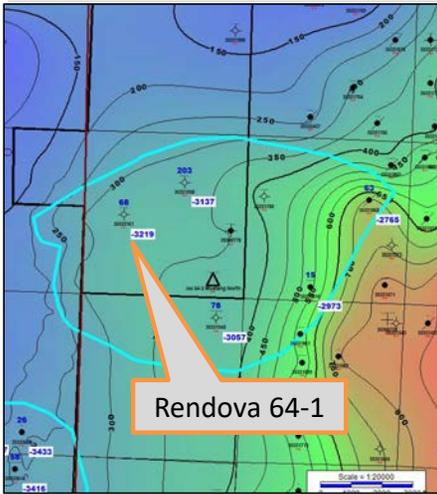


AEMIC 17 March 2021

Canyon Reef analog well: 1991 Rendova Oil: Tubb-Christopher, Melvin C #1 - 68 feet interpreted pay

Log Analysis: 64-1 Rendova (API: 35332161)

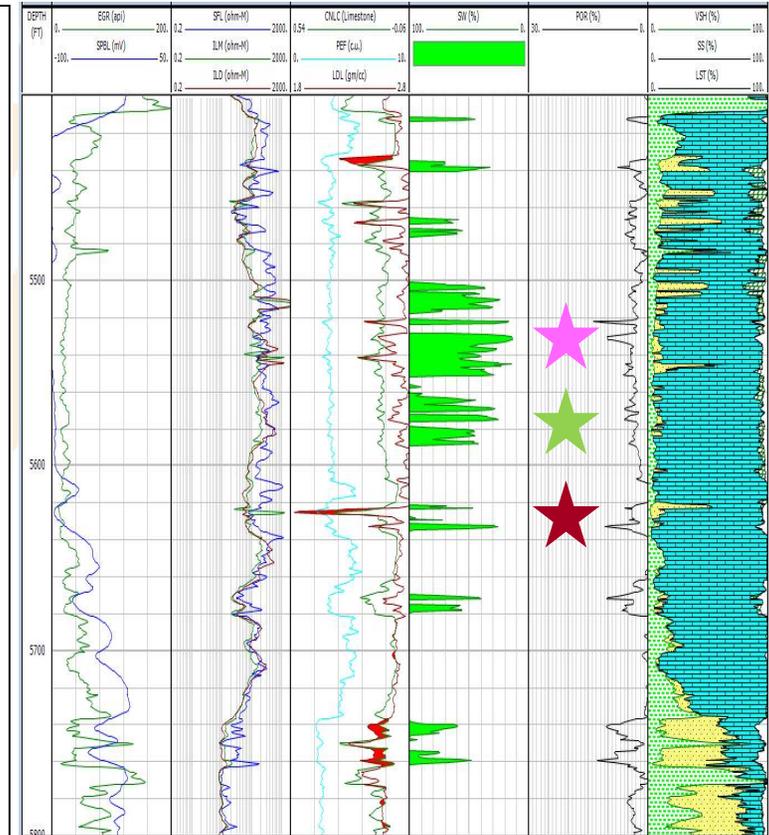
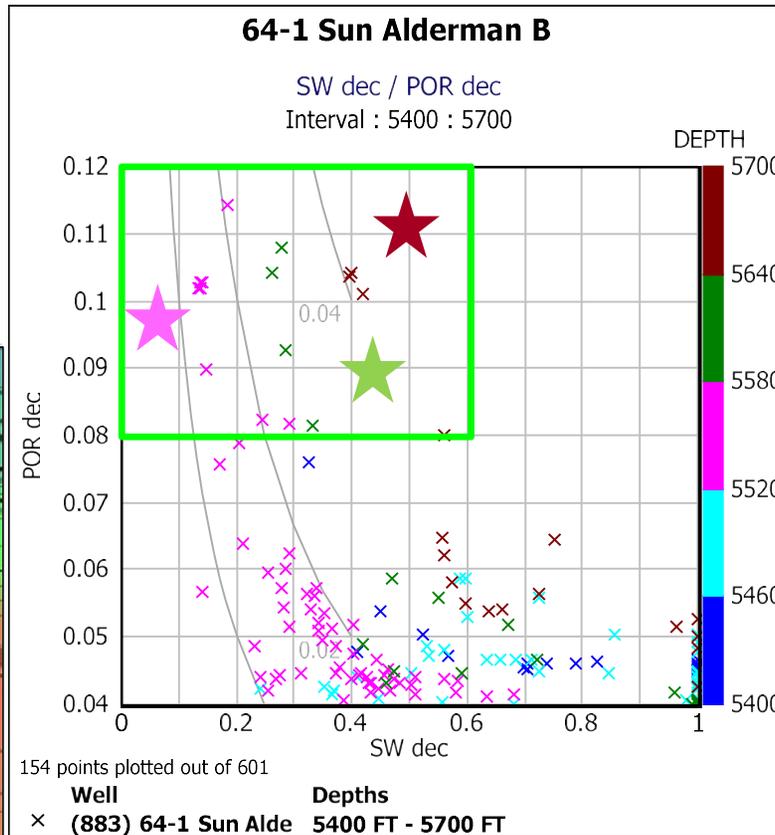
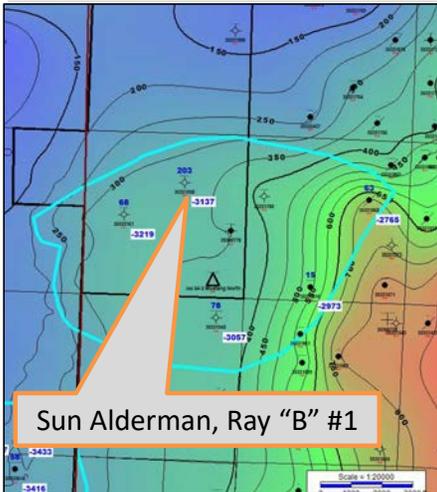
Isopach - 1 Carb (Canyon Reef)



Canyon Reef analog well: 1986 Sun Expln: Alderman, Ray "B" #1

Log Analysis: Sun Alderman B 64-1 (API: 353331958)

Isopach - 1 Carb (Canyon Reef)



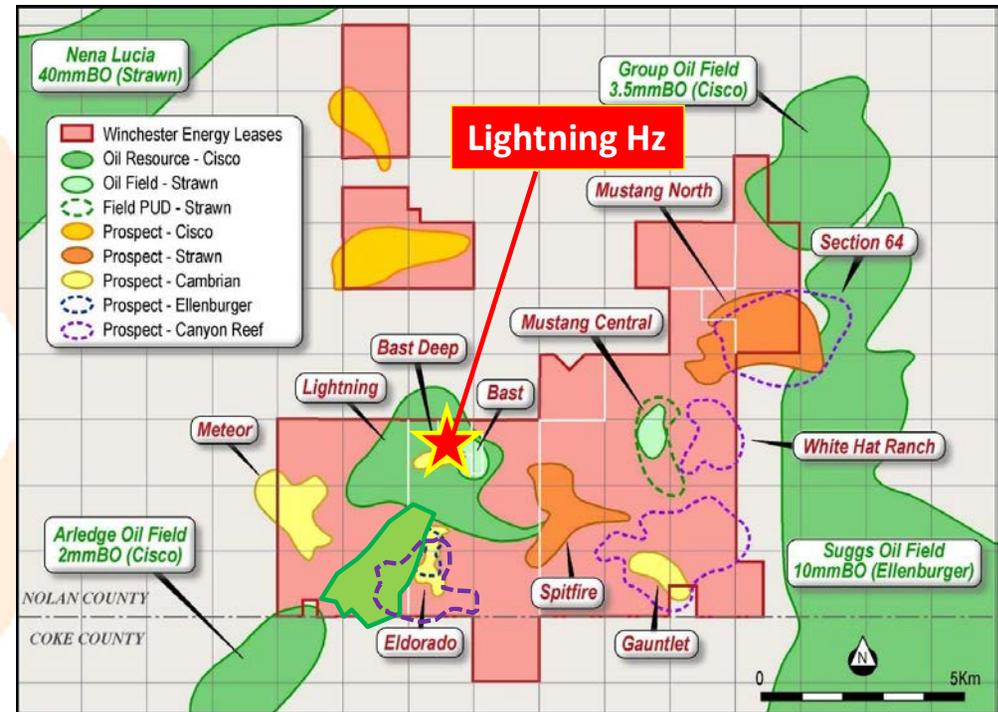
Nolan County Project

- 2021 Q3/Q4 Candidate Prospect Details
 - ✓ Meteor
 - ✓ Spitfire
 - ✓ El Dorado
 - ✓ Mustang North S63
 - ✓ Mustang North (Hurricane) 64-02
 - ✓ Lightning Upper Cisco Horizontal

Cisco "B" Sand Horizontal

Lightning Area – Upper Cisco "B" Sand – 7,500 ft horizontal well

Lightning Horizontal	
Gross Contingent Resources ¹	4.82 mmboe (P50/Best Estimate) 11.01 mmboe (P10/High Estimate)
Primary Target	Upper Cisco "B" Sand
Secondary Target	-
Additional Targets	-
Programmed Total Depth	12,500 ft (7,500 ft Hz)
Estimated Costs (100%)	DHC: US\$1,500,000 Completion: US\$2,500,000
Estimated Spud Date	2022



Objective: Extensive penetration and stimulation of oil-bearing Cisco Sands

Notes:
1. Refer WEL ASX Release 16 March 2021.

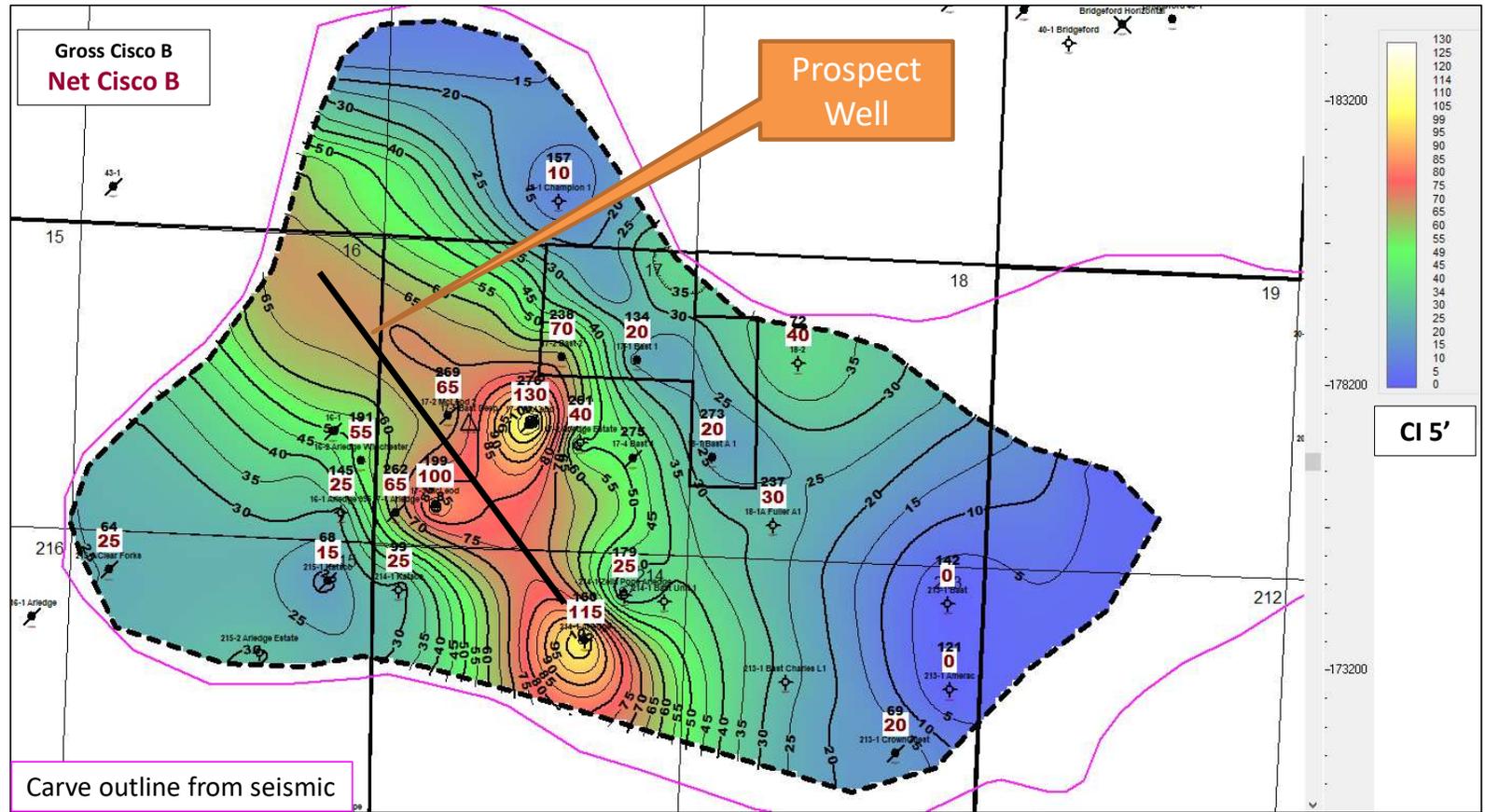
Cisco "B" Sand Horizontal

Lightning Upper Cisco B Sand – Net Sand

Lightning - Upper Cisco B sand - Net

Upper Cisco – "B" Sand

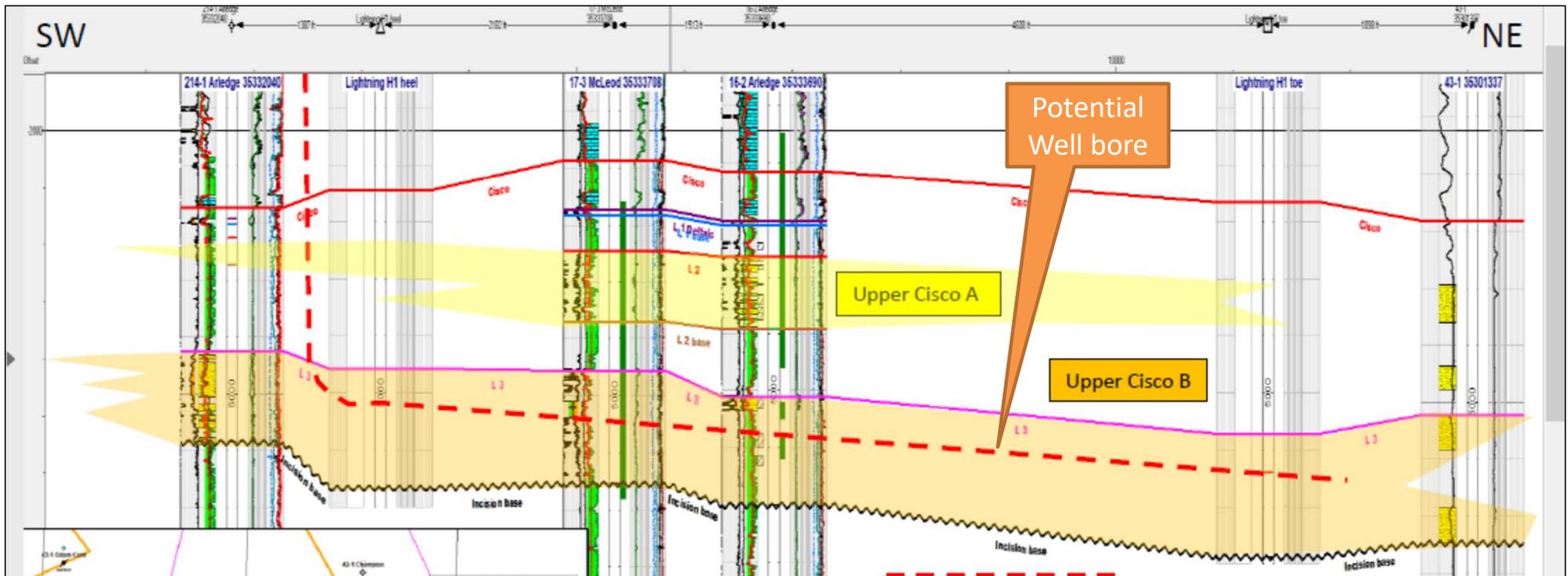
- Gross OIP estimated at 42 mmbbl
- Gross Contingent Resource (P50) Estimate: 4.8 million boe
- Sand distribution as mapped can accommodate multiple 7,500 ft horizontal wells.
- Well costs (D+C) estimated at US\$4MM



Cisco "B" Sand Horizontal

Lightning Upper Cisco – Potential well-bore path

Lightning – Cisco Cross Section showing proposed well bore



Nolan County Project – 2021

2021

- Phase 1 to July**
- Apr – Bast #1 Workover
 - May – Bast Deep Well
 - Jun – McLeod 17-03 Workover
 - July – Mustang 26-01 Well

- Phase 2**
Post July and subject to Phase 1 results
- Meteor
 - Bast A#1 Recompletion
 - Spitfire
 - Eldorado
 - Hurricane
 - Mustang North

Winchester Energy Ltd		2021											
Drilling Schedule Permian Basin	WEL WI	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Bast #1 Recompletion Upper Cisco Sand	92.0%												
Bast Deep Cambrian Structure/Strawn	100.0%												
Hurricane 6401 Fry and Canyon Reef	100.0%												
Spitfire Strawn Sand Channel	100.0%												
El Dorado Cambrian / Ellenburger	100.0%												
Mustang 26-01 Fry – Development	100%												
Meteor Cambrian Structure	100%												
Mustang North S63 Fry - Field extension	100%												
McLeod 17-03 Cisco Stimulation	100%												
Bast A #1 Recompletion Upper Cisco Sand													

Note – All well timing and well interests subject to rig availability, funding and/or farm-out.

Drilling

Completion & Testing

Workover/Re-entry

Nolan County Project – 2021

“Game Changer” potential drilling in May – other material prospects to follow

Re-entries and Recompletions – cost-effective production boosts				
Identified Opportunities	<ul style="list-style-type: none"> ➤ Bast Field (up to 3 wells) ➤ Lightning (McLeod 17-03) ➤ White Hat Ranch (Canyon Reef) 			
Field Extensions – low risk appraisal and development drilling				
Locations Identified	<ul style="list-style-type: none"> ➤ Up to 6 locations at Mustang ➤ At least 1 location at Bast Field (Bast Deep success will add more) 			
2021 Exploration Drilling – balancing risk and reward – success in any of these could add up to 50 new locations				
Prospects Identified and Ready To Drill ^{1,2}	<ul style="list-style-type: none"> ➤ Bast Deep (Cambrian Four Way dip structure + shallow Strawn Sand) ➤ Mustang Development Wel ➤ Meteor (Cambrian Four Way dip structure) ➤ Mustang North (Fry Sand – on trend with Mustang Field) ➤ Spitfire (Strawn Channel Sand) ➤ Hurricane (Canyon Reef + Fry Sand) ➤ El Dorado (Cambrian / Ellenburger) 	<p>948 mboe</p> <p>74 mboe</p> <p>1,934 mboe</p> <p>623 mboe</p> <p>2,731 mboe</p> <p>1,037 mboe</p> <p>1,358 mboe</p>	<p>100% WI</p>	<p>Q2 Drill !</p> <p>Q3 Drill !</p>
Combined Gross Resource Potential (P50)			8.7 million boe	

Notes:

1. Ultimate decision to proceed with drilling subject to prospect meeting requisite financial and technical thresholds.
2. Resource estimates are Gross ‘Best Estimates’ (P50) – refer to 16 March 2021 ASX Release.

Nolan County Project – 2021

Summary

Multiple Prospects planned for 2021 Drilling

- Winchester has new prospects defined by both drilling and 3D seismic ready to drill in 2021 with considerable upside and large Working Interest (>75%).

Low to Moderate Risk

- Proven petroleum system, multiple reservoir targets in each prospect, well controlled by early drilling.

Low Cost

- Winchester is an established operator with a strong drilling track record. Low drilling and completion costs. Dry Hole drill cost, typically US\$350,000 per location.

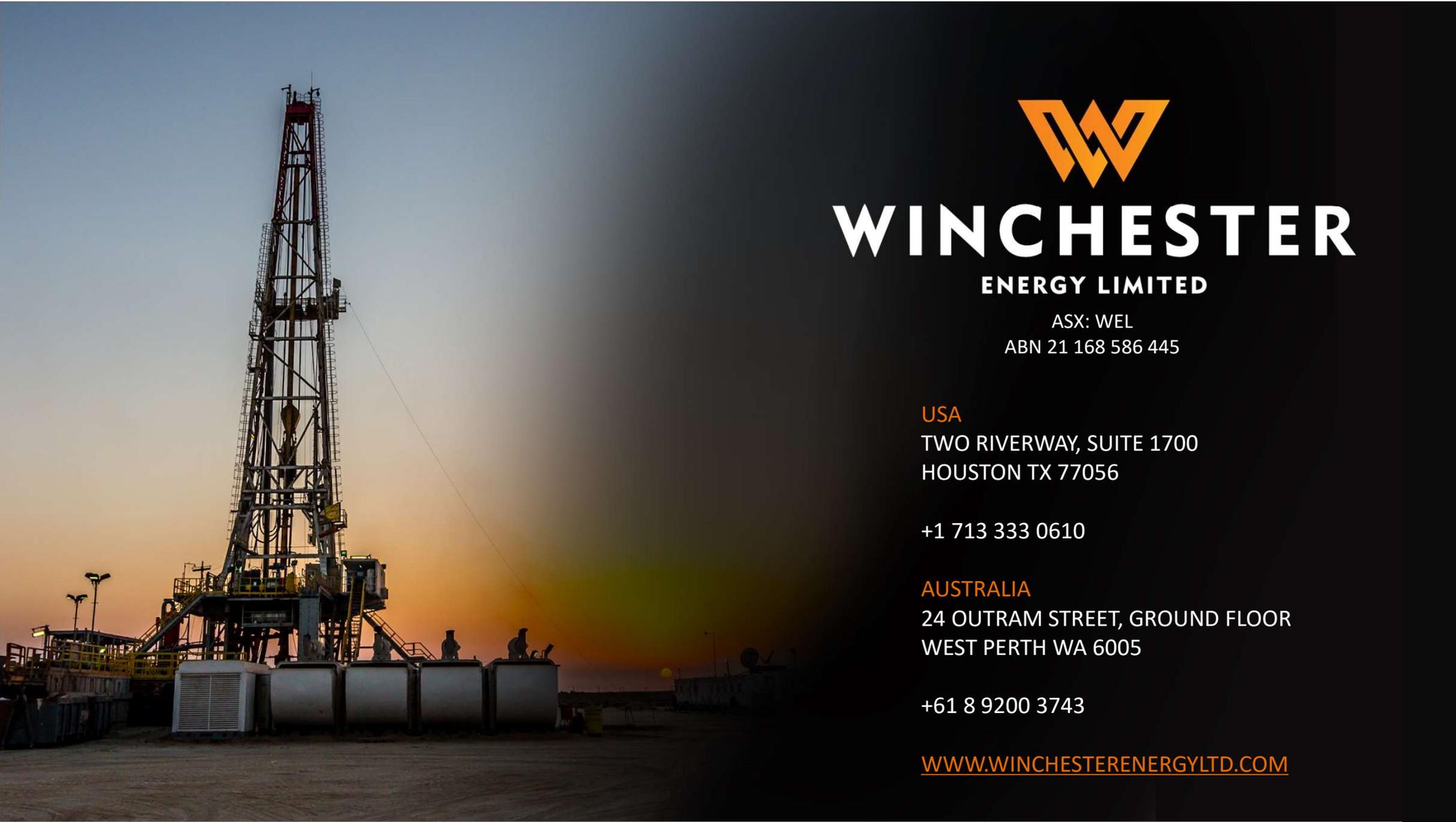
High Return

- If drilling is successful, discovery and development delivers a high rate of return expected to be reflected in WEL share price.

High Impact Bast Deep Prospect scheduled to be drilled in May 2021

Winchester Energy Pumpjack, Workover Rig, Oil being loaded at Arledge 16-02





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