

Form 3160-5
(June 2019)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
Expires: October 31, 2021

5. Lease Serial No. NMNM139373

6. If Indian, Allottee or Tribe Name

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other instructions on page 2

1. Type of Well
☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator EARTHSTONE OPERATING LLC

3a. Address 300 N MARIENFIELD STREET SUITE 1000, MID3b. Phone No. (include area code) (432) 695-4222

4. Location of Well (Footage, Sec., T.,R.,M., or Survey Description) //

7. If Unit of CA/Agreement, Name and/or No.

8. Well Name and No. EL CAMPEON SOUTH FED COM/1

9. API Well No. 3002548141

10. Field and Pool or Exploratory Area WC-025 G-08 S263412K,/BONE SPRING

11. Country or Parish, State LEA/NM

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION				
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off	
☐ Subsequent Report	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity	
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other	
	☒ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon		
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal		

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has detennined that the site is ready for final inspection.)

API: 30-025-48141

WELL NAME

FROM: EL CAMPEON SOUTH FEDERAL COM 111H

TO: EL CAMPEON FED COM 511H;

POOL CODE

FROM: (96672) WC-025 G08 S263412K; BONE SPRING

TO: (96776) JABALINA; WOLFCAMP, SOUTHWEST

SURFACE HOLE LOCATION

FROM: E-29-26S-35E; 1828' FNL, 632' FWL

TO: E-29-26S-35E; 1828' FNL, 622' FWL;

FIRST TAKE POINT

FROM: L-29-26S-35E; 2543' FSL, 330' FWL

Continued on page 3 additional information

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed) JENNIFER ELROD / Ph: (940) 452-6214

Senior Regulatory Analyst

Title

(Electronic Submission)

Signature

Date 01/15/2024

THE SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by CHRISTOPHER WALLS / Ph: (575) 234-2234 / Approved

Petroleum Engineer

Title

01/29/2024

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office CARLSBAD

Title 18 U.S.C Section 1001 and Title 43 U.S.C Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

GENERAL INSTRUCTIONS

This form is designed for submitting proposals to perform certain well operations and reports of such operations when completed as indicated on Federal and Indian lands pursuant to applicable Federal law and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local area or regional procedures and practices, are either shown below, will be issued by or may be obtained from the local Federal office.

SPECIFIC INSTRUCTIONS

Item 4 - Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult the local Federal office for specific instructions.

Item 13: Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by the local Federal office. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to the top of any tubing left in the hole; method of closing top of well and date well site conditioned for final inspection looking for approval of the abandonment. If the proposal will involve **hydraulic fracturing operations**, you must comply with 43 CFR 3162.3-3, including providing information about the protection of usable water. Operators should provide the best available information about all formations containing water and their depths. This information could include data and interpretation of resistivity logs run on nearby wells. Information may also be obtained from state or tribal regulatory agencies and from local BLM offices.

NOTICES

The privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et seq., 351 et seq., 25 U.S.C. 396; 43 CFR 3160.

PRINCIPAL PURPOSE: The information is used to: (1) Evaluate, when appropriate, approve applications, and report completion of subsequent well operations, on a Federal or Indian lease; and (2) document for administrative use, information for the management, disposal and use of National Resource lands and resources, such as: (a) evaluating the equipment and procedures to be used during a proposed subsequent well operation and reviewing the completed well operations for compliance with the approved plan; (b) requesting and granting approval to perform those actions covered by 43 CFR 3162.3-2, 3162.3-3, and 3162.3-4; (c) reporting the beginning or resumption of production, as required by 43 CFR 3162.4-1(c) and (d) analyzing future applications to drill or modify operations in light of data obtained and methods used.

ROUTINE USES: Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions in connection with congressional inquiries or to consumer reporting agencies to facilitate collection of debts owed the Government.

EFFECT OF NOT PROVIDING THE INFORMATION: Filing of this notice and report and disclosure of the information is mandatory for those subsequent well operations specified in 43 CFR 3162.3-2, 3162.3-3, 3162.3-4.

The Paperwork Reduction Act of 1995 requires us to inform you that:

The BLM collects this information to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.

Response to this request is mandatory.

The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

BURDEN HOURS STATEMENT: Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau Information Collection Clearance Officer (WO-630), 1849 C St., N.W., Mail Stop 401 LS, Washington, D.C. 20240

Additional Information

Additional Remarks

TO: L-29-26S-35E; 2543' FSL, 439' FWL;

STATE LINE CROSSING

LOT 4-32-26S-35E; 0'FSL, 439' FWL;

LAST TAKE POINT/BOTTOM HOLE LOCATION

FROM: LOT 4-32-26S-35E; LEA COUNTY, NEW MEXICO

TO: SECT. 25, BLOCK C-24, PUBLIC SCHOOL LANDS SURVEY A-701, LOVING COUNTY, TEXAS

Location of Well

0. SHL: TR E / 1828 FNL / 632 FWL / TWSP: 26S / RANGE: 35E / SECTION: 29 / LAT: 32.0165066 / LONG: -103.395892 (TVD: 0 feet, MD: 0 feet)

PPP: TR L / 2642 FSL / 331 FWL / TWSP: 26S / RANGE: 35E / SECTION: 29 / LAT: 32.014269 / LONG: -103.396861 (TVD: 10515 feet, MD: 10700 feet)

PPP: LOT 4 / 0 FNL / 331 FWL / TWSP: 26S / RANGE: 35E / SECTION: 32 / LAT: 32.007006 / LONG: -103.396851 (TVD: 10549 feet, MD: 13300 feet)

BHL: LOT 4 / 10 FSL / 330 FWL / TWSP: 26S / RANGE: 35E / SECTION: 32 / LAT: 32.0003194 / LONG: -103.3968424 (TVD: 10550 feet, MD: 15769 feet)

CONFIDENTIAL

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico

Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.

Santa Fe, NM 87505

Form C-102

Revised August 1, 2011

Submit one copy to appropriate District Office

☒ AMENDED REPORT

WELL NAME/NUMBER, POOL,

SHL, FTP, LTP, BHL, STATE

WELL LOCATION AND ACREAGE DEDICATION PLATLINE CROSSING

1 API Number	2 Pool Code	3 Pool Name
30-025-48141	96776	JABALINA; WOLFCAMP, SOUTHWEST
4 Property Code	5 Property Name	6 Well Number
333366	EL CAMPEON FED COM	511H
7 OGRID No.	8 Operator Name	9 Elevation
331165	EARTHSTONE OPERATING LLC	3170.29'

10 Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
E	29	26-S	35-E		1828'	NORTH	662'	WEST	LEA

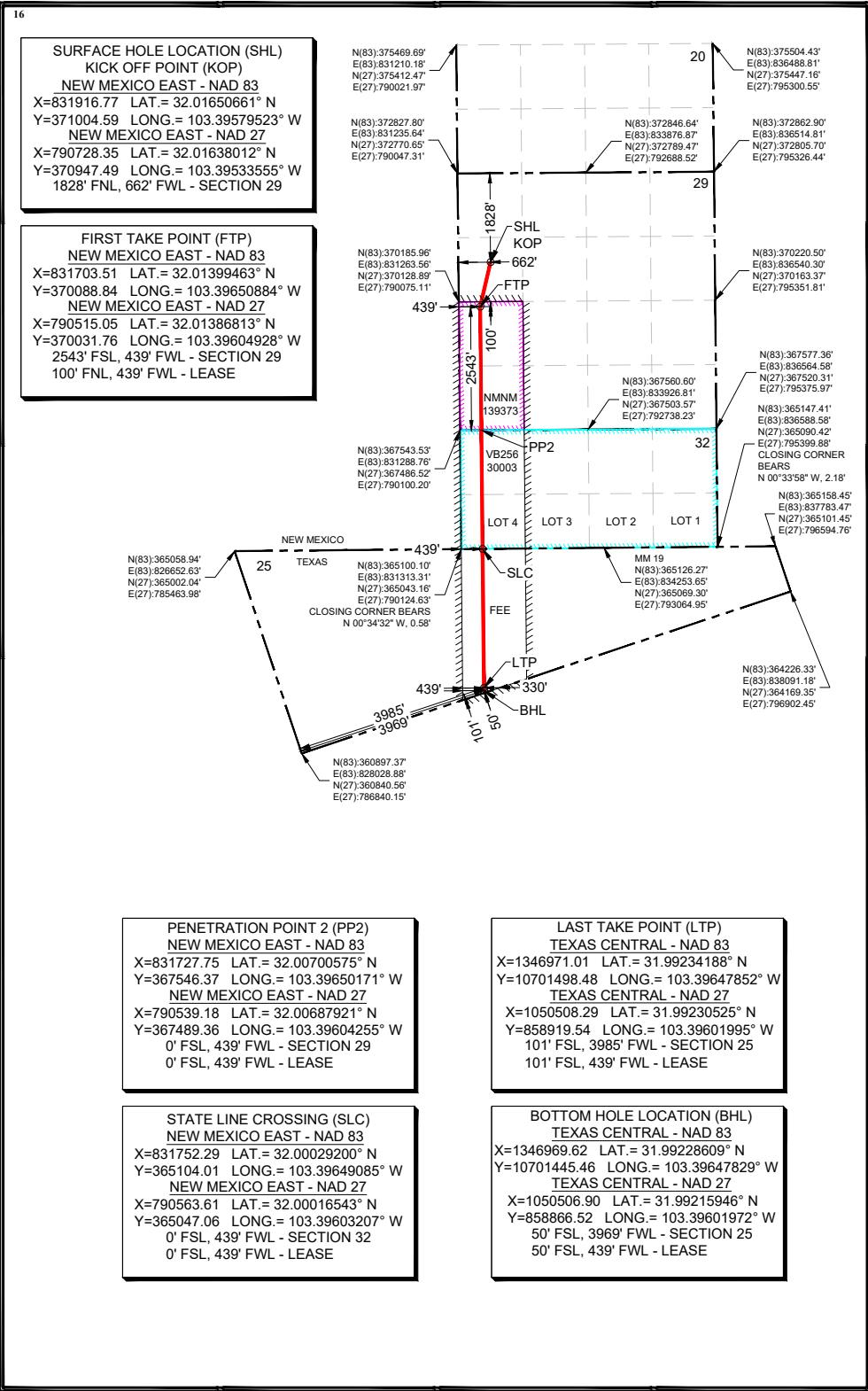
11 State Line Crossing If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
4	32	26-S	35-E		0'	SOUTH	439'	WEST	LEA

12 Dedicated Acres	13 Joint or Infill	14 Consolidation Code	15 Order No.
241.67	Y		

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

*BHL & LTP WILL BE IN TEXAS



17 OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Jennifer Elrod

12/18/2023

JENNIFER ELROD

jennifer.elrod@permianres.com

18 SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

Charles L. Jurica

12/13/2023

CHARLES L. JURICA

25490

Certificate Number

25490

EARTHSTONE OPERATING, LLC

SHEET NO. 1 OF 1

NATURE OF WORK PAD SITE EXHIBIT

DATE 11-29-23SRID NO.

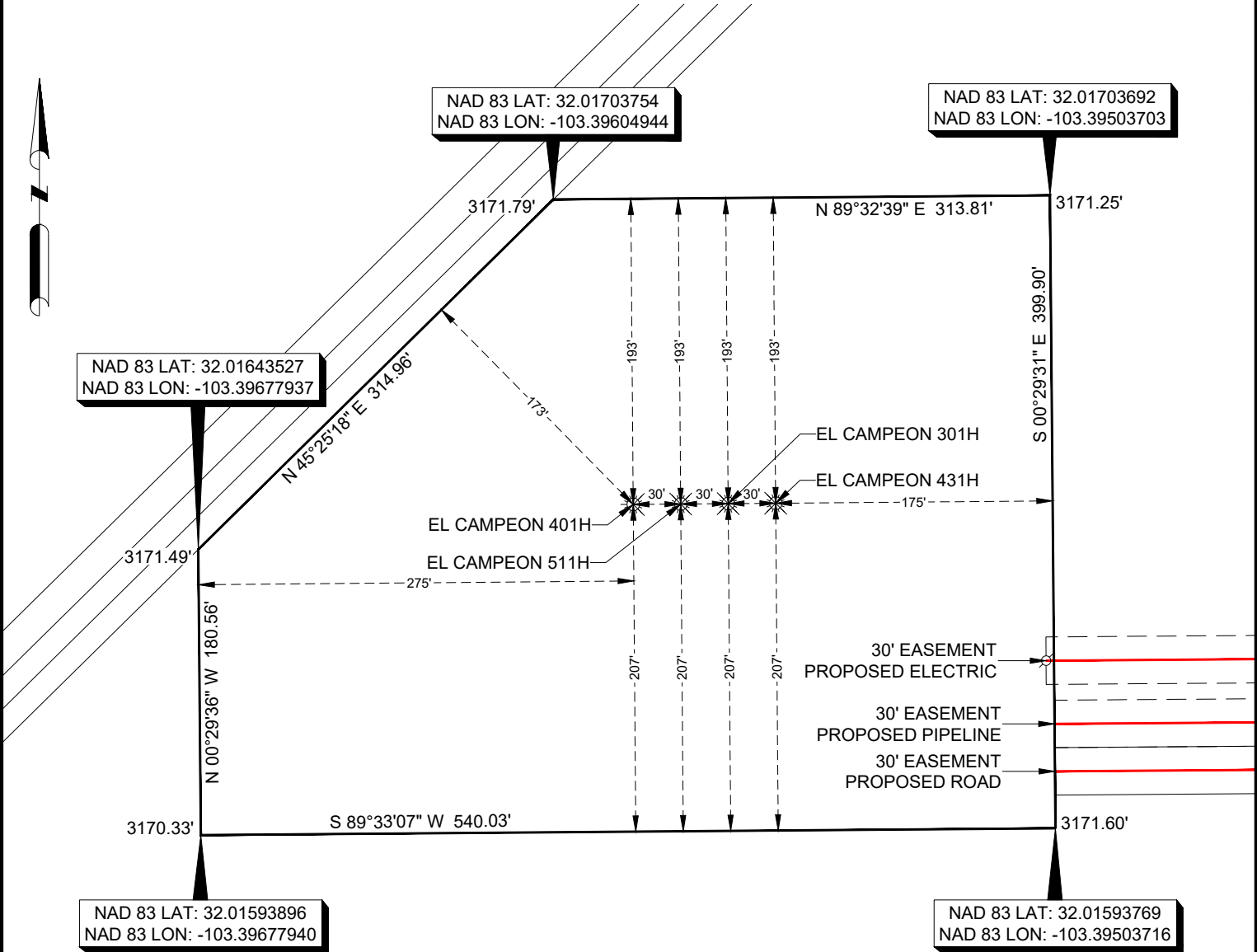
PROJECT- EL CAMPEON SOUTH PAD 1

JOB OR AFE

SEC. 29TWP 35ERANGE 26SMERIDIAN NEW MEXICO PRINCIPAL MERIDIANCO. LEASTATE NEW MEXICO

REMARKS TOTAL AREA= 4.388 ACRES (191,140 SQUARE FEET)

RE:☐ AS-BUILT☒ STAKING

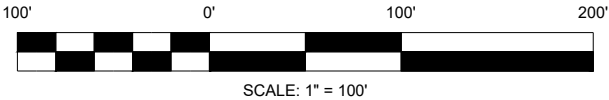


EL CAMPEON 401H SURFACE HOLE LOCATION	
ELEVATION 3170.47'	
NEW MEXICO EAST - NAD 83	
NORTHING	371004.35
EASTING	831886.77
LATITUDE	32.016507°
LONGITUDE	-103.395892°
NEW MEXICO EAST - NAD 27	
NORTHING	370947.24
EASTING	790698.35
LATITUDE	32.016380°
LONGITUDE	-103.395432°

EL CAMPEON 511H SURFACE HOLE LOCATION	
ELEVATION 3170.29'	
NEW MEXICO EAST - NAD 83	
NORTHING	371004.59
EASTING	831916.77
LATITUDE	32.016507°
LONGITUDE	-103.395795°
NEW MEXICO EAST - NAD 27	
NORTHING	370947.49
EASTING	790728.35
LATITUDE	32.016380°
LONGITUDE	-103.395336°

EL CAMPEON 301H SURFACE HOLE LOCATION	
ELEVATION 3169.81'	
NEW MEXICO EAST - NAD 83	
NORTHING	371004.84
EASTING	831946.77
LATITUDE	32.016507°
LONGITUDE	-103.395698°
NEW MEXICO EAST - NAD 27	
NORTHING	370947.73
EASTING	790758.35
LATITUDE	32.016380°
LONGITUDE	-103.395239°

EL CAMPEON 431H SURFACE HOLE LOCATION	
ELEVATION 3170.57'	
NEW MEXICO EAST - NAD 83	
NORTHING	371005.08
EASTING	831976.77
LATITUDE	32.016507°
LONGITUDE	-103.395602°
NEW MEXICO EAST - NAD 27	
NORTHING	370947.98
EASTING	790788.35
LATITUDE	32.016380°
LONGITUDE	-103.395142°



NOTES:

1. BEARINGS, DISTANCES, AREA AND COORDINATES SHOWN HEREON ARE CORRELATED TO THE NEW MEXICO STATE PLANE COORDINATE SYSTEM OF 1983, EAST ZONE, AS DETERMINED BY GPS OPUS OBSERVATIONS. ALL BEARINGS AND DISTANCES SHOWN ARE GRID.
2. LATITUDE & LONGITUDE ARE NAD 83 DECIMAL GEOGRAPHIC.
3. THIS SURVEY WAS PERFORMED WITHOUT THE BENEFIT OF A TITLE REPORT AND THE REVIEW OF THE ABSTRACT OF TITLE. THERE MAY BE EASEMENTS AND/OR COVENANTS AFFECTING THIS PROPERTY NOT SHOWN HEREON. LOCATION OF ALL IMPROVEMENTS WAS BEYOND COMMISSIONED SCOPE OF THIS PROJECT AND HAS BEEN SPECIFICALLY OMITTED. VESTING DOCUMENTS NOT FURNISHED FOR THIS SURVEY.



DATE: 11-29-23 DATE SURVEYED 11-13-23 DRAFT MHC

JOB NO. 21497 FIELD BOOK V. KK1, P. 63 REV. 0

FILE 21497 EL CAMPEON SOUTH PAD 1 PLAT



TBPELS FIRM# 10194245
201 West Wall Street, Suite 325
Midland, TX 79701
(817) 529-1180 ~ Fax (817) 529-1181

I, CHUCK JURICA, A NEW MEXICO PROFESSIONAL LAND SURVEYOR, DO HEREBY CERTIFY THAT I CONDUCTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THAT THIS SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO.

12/13/2023

CHARLES JURICA NEW MEXICO LICENSE # 25490 DATE

Permian Resources - El Campeon Fed Com 511H

1. Geologic Formations

Formation	Lithology	Elevation	TVD	Target
Rustler	Sandstone	2160	1040	No
Top of Salt	Salt	1700	1500	No
Lamar	Anhydrite/Shale	-2134	5334	No
Capitan	Limestone	NP	NP	No
Cherry Canyon	Sandstone	-2178	5378	No
Brushy Canyon	Sandstone	NP	NP	No
Bone Spring Lime	Limestone	-6074	9274	No
1st Bone Spring Sand	Sandstone/Limestone/Shale	-7400	10600	No
2nd Bone Spring Sand	Sandstone/Limestone/Shale	-7862	11062	No
3rd Bone Spring Sand	Sandstone/Limestone/Shale	-8942	12142	No
Wolfcamp A/XY	Sandstone/Limestone/Shale	-9354	12554	No
Wolfcamp B	Sandstone/Limestone/Shale	-9776	12976	Yes

2. Blowout Prevention

BOP installed and tested before drilling	Size?	Min. Required WP	Type	x	Tested to:
8.75	13-5/8"	5M	Annular	x	5000 psi
			Blind Ram	x	5000 psi
			Pipe Ram	x	
			Double Ram		
			Other*		
6.75	13-5/8"	10M	Annular	x	50% testing pressure
			Blind Ram	x	5000 psi
			Pipe Ram	x	
			Double Ram		
			Other*		

Equipment: BOPE with working pressure ratings in excess of anticipated maximum surface pressure will be utilized for well control from drill out of surface casing to TMD. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all the components installed will be functional and tested. All BOPE connections shall be flanged, welded or clamped. All choke lines shall be straight unless targeted with running tees or tee blocks are used, and choke lines shall be anchored to prevent whip and reduce vibrations. All valves in the choke line & the choke manifold shall be full opening as to not cause restrictions and to allow for straight fluid paths to minimize potential erosion. All gauges utilized in the well control system shall be of a type designed for drilling fluid service. A top drive inside BOP valve will be utilized at all times. Subs equipped with full opening valves sized to fit the drill pipe and collars will be available on the rig floor in the open position. The key to operate said valve equipped subs will be on the rig floor at all times. The accumulator system will have sufficient capacity to open the HCR and close all three sets of rams plus the annular preventer while retaining at least 300 psi above precharge on the closing manifold (accumulator system shall be capable of doing so without using the closing unit pumps). The fluid reservoir capacity will be double the usable fluid volume of the accumulator system capacity, and the fluid level will be maintained at the manufacturer's recommended level. Prior to connecting the closing unit to the BOP stack, an accumulator precharge pressure test shall be performed to ensure the precharge pressure is within 100 psi of the desired precharge pressure (only nitrogen gas will be used to precharge). Two independent power sources will be made available at all times to power the closing unit pumps so that the pumps can automatically start when the closing valve manifold pressure has decreased to the preset level. Closing unit pumps will be sized to allow opening of HCR and closing of annular preventer on 5" drill pipe achieving at least 200 psi above precharge pressure with the accumulator system isolated from service in less than two minutes. A valve shall be installed in the closing line as close to the annular preventer as possible to act as a locking device; the valve shall be maintained in the open position and shall be closed only when the power source for the accumulator system is inoperative. Remote controls capable of opening and closing all preventers & the HCR shall be readily accessible to the driller; master controls with the same capability will be operable at the accumulator. The wellhead will be a multibowl speed head allowing for hangoff of intermediate casing & isolation of the 133/8 x 95/8 annulus without breaking the connection between the BOP & wellhead to install an additional casing head. A wear bushing will be installed & inspected frequently to guard against internal wear to wellhead. VBRs (variablebore rams) will be run in upper rambody of BOP stack to provide redundancy to annular preventer while RIH w/ production casing;

Requesting Variance? YES

Variance request: Flex hose and offline cement variances, see attachments in section 8.

Testing Procedure: The BOP test shall be performed before drilling out of the surface casing shoe and will occur at a minimum: a. when initially installed b. whenever any seal subject to test pressure is broken c. following related repairs d. at 30 day intervals e. checked daily as to mechanical operating conditions. The ram type preventer(s) will be tested using a test plug to 250 psi (low) and 5,000 psi (high) (casinghead WP) with a test plug upon its installation onto the 13 surface casing. If a test plug is not used, the ram type preventer(s) shall be tested to 70% of the minimum internal yield pressure of the casing. The annular type preventer(s) shall be tested to 3500 psi. Pressure will be maintained for at least 10 minutes or until provisions of the test are met, whichever is longer. A Sundry Notice (Form 3160 5), along with a copy of the BOP test report, shall be submitted to the local BLM office within 5 working days following the test. If the bleed line is connected into the buffer tank (header), all BOP equipment including the buffer tank and associated valves will be rated at the required BOP pressure. The BLM office will be provided with a minimum of four (4) hours notice of BOP testing to allow witnessing. The BOP Configuration, choke manifold layout, and accumulator system, will be in compliance with Onshore Order 2 for a 5,000 psi system. A remote accumulator and a multi-bowl system will be used, please see attachment in section 8 for multi-bowl procedure. Pressures, capacities, and specific placement and use of the manual and/or hydraulic controls, accumulator controls, bleed lines, etc., will be identified at the time of the BLM 'witnessed BOP test. Any remote controls will be capable of both opening and closing all preventers and shall be readily accessible.

Choke Diagram Attachemnt: 5 M Choe Manifold
BOP Diagram Attachment: BOP Schematic

3. Casing

String	Hole Size	Casing Size	Top	Bottom	Top TVD	Bottom TVD	Length	Grade	Weight	Connection	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF
Surface	12.25	9.625	0	1130	0	1130	1130	J55	40	BTC	4.60	4.72	Dry	4.92	Dry	4.34
Intermediate	8.75	7.625	0	12000	0	12000	12000	P110HS	29.7	MOFXL	2.76	2.01	Dry	1.84	Dry	3.08
Production	6.75	5.5	0	11500	0	13029	11500	P110RY	20	GEOCONN	1.21	1.55	Dry	2.06	Dry	2.06
Production	6.75	5.5	11500	21239	13029	13029	9739	P110RY	20	Bushmaster SL	1.21	1.55	Dry	2.06	Dry	2.06
BLM Min Safety Factor											1.125	1		1.6		1.6

Non API casing spec sheets and casing design assumptions attached.

4. Cement

String	Lead/Tail	Top MD	Bottom MD	Quantity (sx)	Yield	Density	Cu Ft	Excess %	Cement Type	Additives
Surface	Lead	0	900	310	1.88	12.9	570	100%	Class C	EconoCem-HLC + 5% Salt + 5% Kol-Seal
Surface	Tail	900	1130	90	1.34	14.8	110	50%	Class C	Accelerator
Intermediate	Lead	0	9600	780	1.88	12.9	1450	50%	Class C	EconoCem-HLC + 5% Salt + 5% Kol-Seal
Intermediate	Tail	9600	12000	280	1.34	14.8	370	50%	Class C	Retarder
Production	Lead	11500	12591	90	2.41	11.5	200	40%	Class H	POZ, Extender, Fluid Loss, Dispersant, Retarder
Production	Tail	12591	21239	530	1.73	12.5	910	25%	Class H	POZ, Extender, Fluid Loss, Dispersant, Retarder

Permian Resources requests to pump a two stage cement job on the 7-5/8" intermediate casing string with the first stage being pumped conventionally with the calculated top of cement at the Cherry Canyon and the second stage performed as a bradenhead squeeze with planned cement from the Brushy Canyon to surface. If cement is not visually confirmed to circulate to surface, the final cement top after the second stage job will be verified by Echo-meter. If necessary, a top out consisting of 1,500 sack of Class C cement + 3% Salt + Bentonite Gel (2.30 yld, 12.9 ppg) will be executed as a contingency. If cement is still unable to circulate to surface, another Echo-meter run will be performed for cement top verification.

Permian Resources will include the Echo-meter verified fluid top and the volume of displacement fluid above the cement slurry in the annulus in all post-drill sundries on wells utilizing this cement program.

Permian Resources will report to the BLM the volume of fluid (limited to 5 bbls) used to flush intermediate casing valves following backside cementing procedures.

Permian Resources requests to pump an Optional Lead if well conditions dictate in an attempt to bring cement inside the surface casing. If cement reaches the desired height, the BLM will be notified and the second stage bradenhead squeeze and subsequent TOC verification will be negated.

Permian Resources requests the option to conduct the bradenhead squeeze and TOC verification offline as per standard approval from BLM when unplanned remediation is needed and batch drilling is approved. In the event the bradenhead is conducted, we will ensure the first stage cement job is cemented properly and the well is static with floats holding and no pressure on the csg annulus as with all other casing strings where batch drilling operations occur before moving off the rig. The TA cap will also be installed per Cactus procedure and pressure inside the casing will be monitored via the valve on the TA cap as per standard batch drilling ops.

5. Circulating Medium

Mud System Type: Closed

Will an air or gas system be used: No

Describe what will be on location to control well or mitigate other conditions: Sufficient quantities of mud materials will be on the well site at all times for the purpose of assuring well control and maintaining wellbore integrity. Surface interval will employ fresh water mud. The intermediate hole will utilize a saturated brine fluid to inhibit salt washout. The production hole will employ brine based and oil base fluid to inhibit formation reactivity and of the appropriate density to maintain well control.

Describe the mud monitoring system utilized: Centrifuge separation system. Open tank monitoring with EDR will be used for drilling fluids and return volumes. Open tank monitoring will be used for cement and cuttings return volumes. Mud properties will be monitored at least every 24 hours using industry accepted mud check practices.

Cuttings Volume: 7770 Cu Ft

Circulating Medium Table

Top Depth	Bottom Depth	Mud Type	Min Weight	Max Weight
0	1130	Spud Mud	8.6	9.5
1130	12000	Water Based Mud	10	10
12000	11500	OBM	9	13.5
11500	21239	OBM	9	13.5

6. Test, Logging, Coring

List of production tests including testing procedures, equipment and safety measures:

Will utilize MWD/LWD (Gamma Ray logging) from intermediate hole to TD of the well.

List of open and cased hole logs run in the well:

DIRECTIONAL SURVEY, GAMMA RAY LOG,

Coring operation description for the well:

N/A

7. Pressure

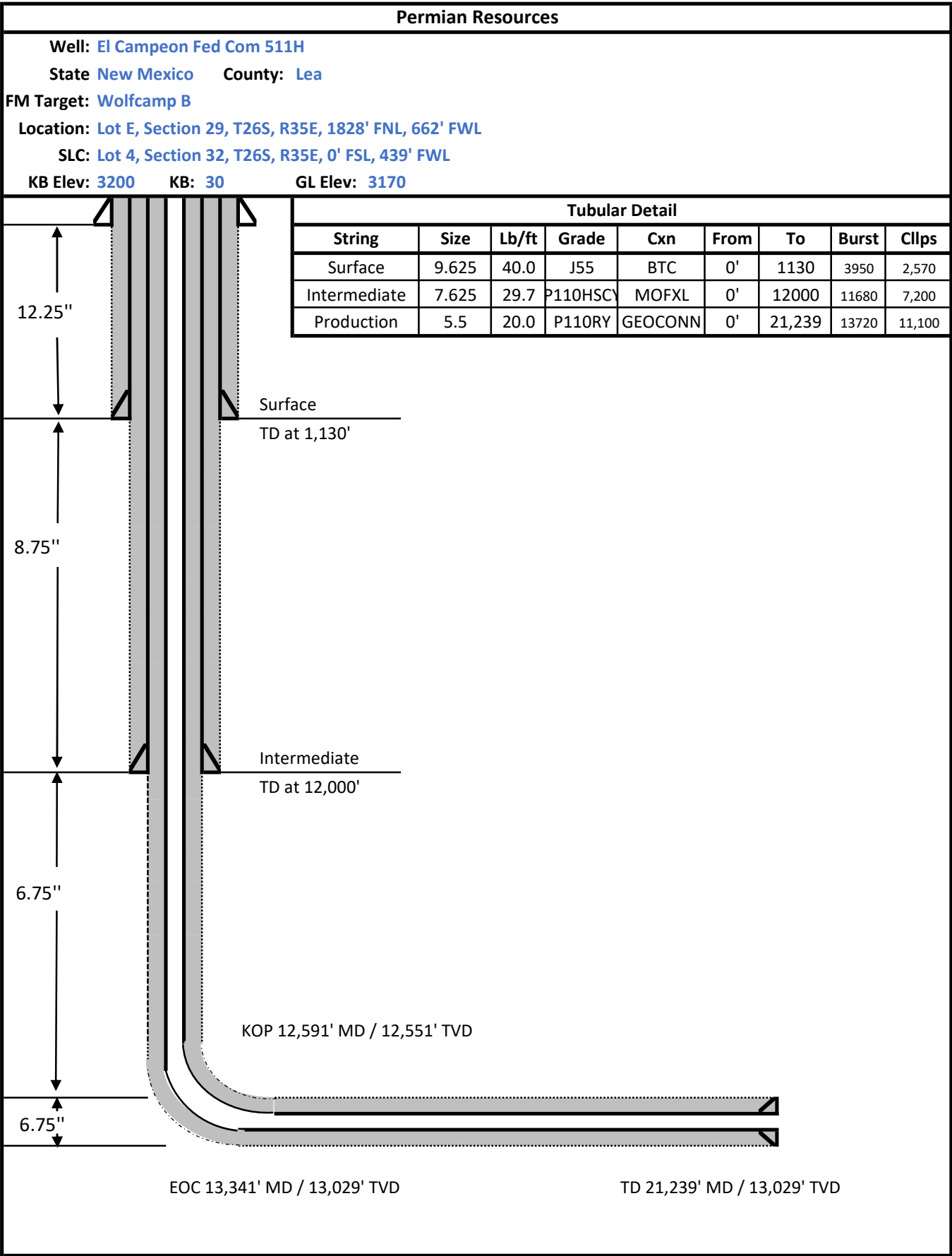
Anticipated Bottom Hole Pressure	9150	psi
Anticipated Surface Pressure	6280	psi
Anticipated Bottom Hole Temperature	183	°F
Anticipated Abnormal pressure, temp, or geo hazards	No	

8. Waste Management

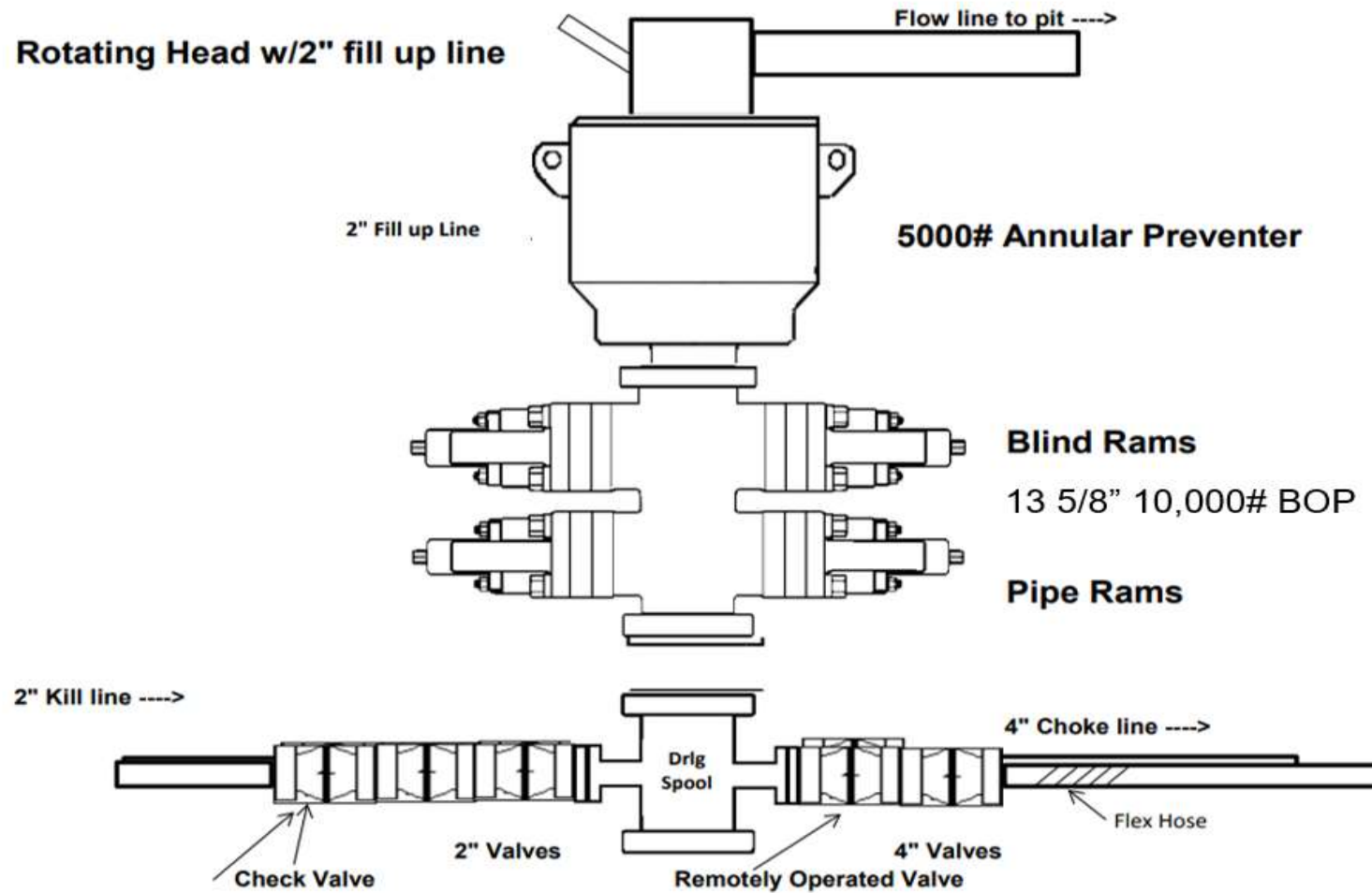
Waste Type:	Drilling
Waste content description:	Fresh water based drilling fluid
Amount of waste:	1500 bbls
Waste disposal frequency:	Weekly (after drilling all surfaces)
Safe containment description:	Steel tanks with plastic-lined containment berms
Waste disposal type:	Haul to commercial facility
Disposal location ownership:	Commercial
Waste Type:	Grey Water & Human Waste
Waste content description:	Grey Water/Human Waste
Amount of waste:	5000 gallons
Waste disposal frequency:	Weekly
Safe containment description:	Approved waste storage tanks with containment
Waste disposal type:	Haul to commercial facility
Disposal location ownership:	Commercial
Waste Type:	Garbage
Waste content description:	General trash/garbage
Amount of waste:	5000 lbs
Waste disposal frequency:	Weekly
Safe containment description:	Enclosed trash trailer
Waste disposal type:	Haul to commercial facility
Disposal location ownership:	Commercial
Waste Type:	Drilling
Waste content description:	Drill Cuttings
Amount of waste:	7770 Cu Ft
Waste disposal frequency:	Per well
Safe containment description:	Steel tanks
Waste disposal type:	Haul to commercial facility
Disposal location ownership:	Commercial
Waste Type:	Drilling
Waste content description:	Brine water based drilling fluid
Amount of waste:	1500 bbls
Waste disposal frequency:	Monthly
Safe containment description:	Steel tanks with plastic-lined containment berms
Waste disposal type:	Haul to commercial facility
Disposal location ownership:	Commercial

9. Other Information

Well Plan and AC Report: attached
Batching Drilling Procedure: attached
WBD: attached
Flex Hose Specs: attached
Offline Cementing Procedure Attached:



10,000 BOP Schematic





ContiTech

CONTITECH RUBBER Industrial Kft.	No:QC-DB- 210/ 2014 Page: 9 / 113
-------------------------------------	--------------------------------------

QUALITY CONTROL INSPECTION AND TEST CERTIFICATE				CERT. N°: 504	
PURCHASER: ContiTech Oil & Marine Corp.				P.O. N°: 4500408659	
CONTITECH RUBBER order N°: 538236		HOSE TYPE: 3" ID		Choke and Kill Hose	
HOSE SERIAL N°: 67255		NOMINAL / ACTUAL LENGTH: 10,67 m / 10,77 m			
W.P.: 68,9 MPa 10000 psi		T.P.: 103,4 MPa 15000 psi		Duration: 60 min.	
Pressure test with water at ambient temperature					
See attachment. (1 page)					
↑ 10 mm = 10 Min. → 10 mm = 20 MPa					
COUPLINGS Type		Serial N°		Quality	
3" coupling with		9251 9254		AISI 4130	
4 1/16" 10K API b.w. Flange end				AISI 4130	
				A0579N	
				035608	
Not Designed For Well Testing				API Spec 16 C	
				Temperature rate: "B"	
All metal parts are flawless					
WE CERTIFY THAT THE ABOVE HOSE HAS BEEN MANUFACTURED IN ACCORDANCE WITH THE TERMS OF THE ORDER INSPECTED AND PRESSURE TESTED AS ABOVE WITH SATISFACTORY RESULT.					
STATEMENT OF CONFORMITY: We hereby certify that the above items/equipment supplied by us are in conformity with the terms, conditions and specifications of the above Purchaser Order and that these items/equipment were fabricated, inspected and tested in accordance with the referenced standards, codes and specifications and meet the relevant acceptance criteria and design requirements.					
COUNTRY OF ORIGIN HUNGARY/EU					
Date:		Inspector		Quality Control	
20. March 2014.				ContiTech Rubber Industrial S.R.L. Quality Control Dept.  	

Centech Rubber Industrial Co., Ltd. (Subsidiary of 10, H-8728 Sangon) H-6701 P.O. Box 102 Sangon, Hangzhou
Phone: +86 571 864 737 / Fax: +86 52 566 728 / e-mail: info@hdc.coasttech.hk / Internet: www.centech-rubber.hk / www.coasttech.hk
The Court of Chancery County or Registry Court / Registry Court No: Cg 99-09-000503 / EU 197 No: H111537208
Hans Data Communications Zrt., Budapest: H-102106-26830000

ATTACHMENT OF QUALITY CONTROL INSPECTION AND TEST CERTIFICATE No: 501, 504, 505

Page: 1 / 1



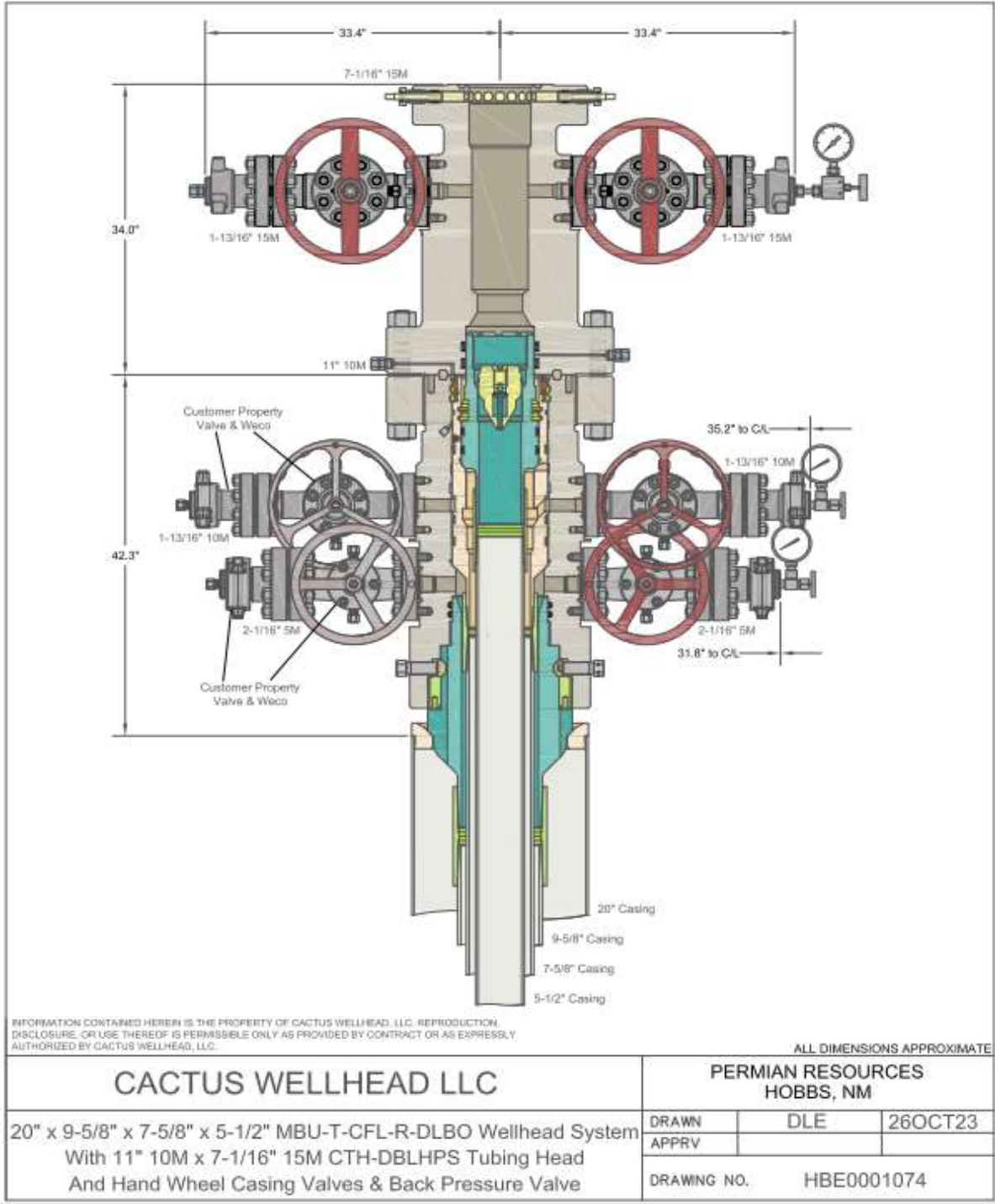


CONTITECH RUBBER Industrial Kft.	No:QC-DB- 210/ 2014
	Page: 15 / 113
	ContiTech

Hose Data Sheet

CRI Order No.	538236
Customer	ContiTech Oil & Marine Corp.
Customer Order No.	4500409659
Item No.	1
Hose Type	Flexible Hose
Standard	API SPEC 16 C
Inside dia in inches	3
Length	35 ft
Type of coupling one end	FLANGE 4.1/16" 10K API SPEC 6A TYPE 6BX FLANGE C/W BX155 R.GR.SOUR
Type of coupling other end	FLANGE 4.1/16" 10K API SPEC 6A TYPE 6BX FLANGE C/W BX155 R.GR.SOUR
H2S service NACE MR0175	Yes
Working Pressure	10 000 psi
Design Pressure	10 000 psi
Test Pressure	15 000 psi
Safety Factor	2,25
Marking	USUAL PHOENIX
Cover	NOT FIRE RESISTANT
Outside protection	St. steel outer wrap
Internal stripwound tube	No
Lining	OIL + GAS RESISTANT SOUR
Safety clamp	No
Lifting collar	No
Element C	No
Safety chain	No
Safety wire rope	No
Max. design temperature [°C]	100
Min. design temperature [°C]	-20
Min. Bend Radius operating [m]	0,90
Min. Bend Radius storage [m]	0,90
Electrical continuity	The Hose is electrically continuous
Type of packing	WOODEN CRATE ISPM-15

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Permian Resources Casing Design Criteria

A sundry will be requested if any lesser grade or different size casing is substituted. All casing will be centralized as specified in Onshore Order II. Casing will be tested as specified in Onshore Order II.

Casing Design Assumptions:

Surface

- 1) Burst Design Loads
 - a. Displacement to Gas
 - i. Internal: Assumes a full column of gas in the casing with a gas gradient of 0.7 psi/ft in the absence of better information. It is limited to the controlling pressure based on the maximum expected pore pressure within the next drilling interval.
 - ii. External: Mud weight to TOC and cement mix water gradient (8.4 ppg) below TOC.
 - b. Casing Pressure Test
 - i. Internal: Displacement fluid plus surface pressure required to comply with regulatory casing test pressure requirements of Onshore Oil and Gas Order II and NM NMAC 19.15.16 of NMOCD regulations.
 - ii. External: Mud weight to TOC and cement mix water (8.4 ppg) below TOC.
- 2) Collapse Loads
 - a. Cementing
 - i. Internal: Displacement fluid density.
 - ii. External: Mud weight from TOC to surface and cement slurry weight from TOC to shoe.
 - b. Lost Returns with Mud Drop
 - i. Internal: Lost circulation at the TD of the next hole section and the fluid level falls to a depth where the hydrostatic pressure of the mud column equals pore pressure at the depth of the lost circulation zone.
 - ii. External: Mud weight to TOC and cement slurry(s) density below TOC
- 3) Tension Loads
 - a. Overpull Force
 - i. Axial: Dry weight of the string plus 100,000 lbs applied in a stuck pipe situation.
 - b. Green Cement Casing Test
 - i. Axial: Buoyant weight of the string plus cement plug bump pressure load.

Intermediate I

- 1) Burst Design Loads
 - a. Displacement to Gas
 - i. Internal: Assumes a full column of gas in the casing with a gas gradient of 0.7 psi/ft in the absence of better information. It is limited to the controlling pressure based on the maximum expected pore pressure within the next drilling interval.
 - ii. External: Mud weight to TOC and cement mix water gradient (8.4 ppg) below TOC.
 - b. Casing Pressure Test
 - i. Internal: Displacement fluid plus surface pressure required to comply with regulatory casing test pressure requirements of Onshore Oil and Gas Order II and NM NMAC 19.15.16 of NMOCD regulations.
 - ii. External: Mud weight to TOC and cement mix water (8.4 ppg) below TOC.
- 2) Collapse Loads
 - a. Cementing

- i. Internal: Displacement fluid density.
 - ii. External: Mud weight from TOC to surface and cement slurry weight from TOC to shoe.
 - b. Lost Returns with Mud Drop
 - i. Internal: Lost circulation at the TD of the next hole section and the fluid level falls to a depth where the hydrostatic pressure of the mud column equals pore pressure at the depth of the lost circulation zone.
 - ii. External: Mud weight to TOC and cement slurry(s) density below TOC
- 3) Tension Loads
 - a. Overpull Force
 - i. Axial: Dry weight of the string plus 50,000 lbs applied in a stuck pipe situation.
 - b. Green Cement Casing Test
 - i. Axial: Buoyant weight of the string plus cement plug bump pressure load.

Intermediate or Intermediate II

- 1) Burst Design Loads
 - a. Gas Kick Profile
 - i. Internal: Load profile based on influx encountered in lateral portion of wellbore with a maximum influx volume of 150 bbls and a kick intensity of 1.5 ppg using maximum anticipated MW of 9.9 ppg.
 - ii. External: Mud weight to TOC and cement mix water gradient (8.4 ppg) below TOC.
 - b. Casing Pressure Test
 - i. Internal: Displacement fluid plus surface pressure required to comply with regulatory casing test pressure requirements of Onshore Oil and Gas Order II and NM NMAC 19.15.16 of NMOCD regulations.
 - ii. External: Mud weight to TOC and cement mix water (8.4 ppg) below TOC.
- 2) Collapse Loads
 - a. Cementing
 - i. Internal: Displacement fluid density.
 - ii. External: Mud weight from TOC to surface and cement slurry weight from TOC to shoe.
 - b. Lost Returns with Mud Drop
 - i. Internal: Lost circulation at the deepest TVD of the next hole section and the fluid level falls to a depth where the hydrostatic pressure of the mud column equals pore pressure at the depth of the lost circulation zone.
 - ii. External: Mud weight to TOC and cement slurry(s) density below TOC
- 3) Tension Loads
 - a. Overpull Force
 - i. Axial: Dry weight of the string plus 50,000 lbs applied in a stuck pipe situation.
 - b. Green Cement Casing Test
 - i. Axial: Buoyant weight of the string plus cement plug bump pressure load.

Production

- 1) Burst Design Loads
 - a. Injection Down Casing
 - i. Internal: Surface pressure plus injection fluid gradient
 - ii. External: Mud base-fluid density to top of cement and cement mix water gradient (8.4 ppg) below TOC.
 - b. Casing Pressure Test (Drilling)

- i. Internal: Displacement fluid plus surface pressure required to comply with regulatory casing test pressure requirements of Onshore Oil and Gas Order II and NM NMAC 19.15.16 of NMOCD regulations.
 - ii. External: Mud weight to TOC and cement mix water (8.4 ppg) below TOC.
 - c. Casing Pressure Test (Production)
 - i. Internal: The design pressure test should be the greater of the planned test pressure prior to stimulation down the casing, the regulatory test pressure, and the expected gas lift system pressure. The design test fluid should be the fluid associated with the pressure test having the greatest pressure.
 - ii. External: Mud base-fluid density to top of cement and cement mix water gradient (8.4 ppg) below TOC.
 - d. Tubing Leak
 - i. Internal: SITP plus a packer fluid gradient to the top of packer.
 - ii. External: Mud base-fluid density to top of cement and cement mix water gradient (8.4 ppg) below TOC.
- 2) Collapse Loads
 - a. Cementing
 - i. Internal: Displacement fluid density.
 - ii. External: Mud weight from TOC to surface and cement slurry weight from TOC to shoe.
 - b. Full Evacuation
 - i. Internal: Fully void pipe.
 - ii. External: Mud weight to TOC and cement slurry(s) density below TOC
- 3) Tension Loads
 - a. Overpull Force
 - i. Axial: Dry weight of the string plus 50,000 lbs applied in a stuck pipe situation.
 - b. Green Cement Casing Test
 - i. Axial: Buoyant weight of the string plus cement plug bump pressure load.

Permian Resources

Multi-Well Pad Batch Drilling Procedure

Surface Casing - PR intends to Batch set all surface casing to a depth approved in the APD. Surface Holes will be batch drilled by a rig. Appropriate notifications will be made prior to spudding the well, running and cementing casing and prior to skidding to the rig to the next well on pad.

1. Drill Surface hole to Approved Depth with Rig and perform wellbore cleanup cycles. Trip out and rack back drilling BHA.
2. Run and land planned surface casing see Illustration 1-1 Below to depth approved in APD.
3. Set packoff and test to 5k psi
4. Offline Cement
5. Install wellhead with pressure gauge and nightcap. Nightcap is shown on final wellhead Stack up Illustration #2-2.
6. Skid Rig to adjacent well to drill Surface hole.
7. Surface casing test will be performed by the rig in order to allow ample time for Cement to develop 500psi compressive strength. Casing test to 0.22 psi/ft or 1500 psi whichever is greater - not to exceed 70% casing burst.

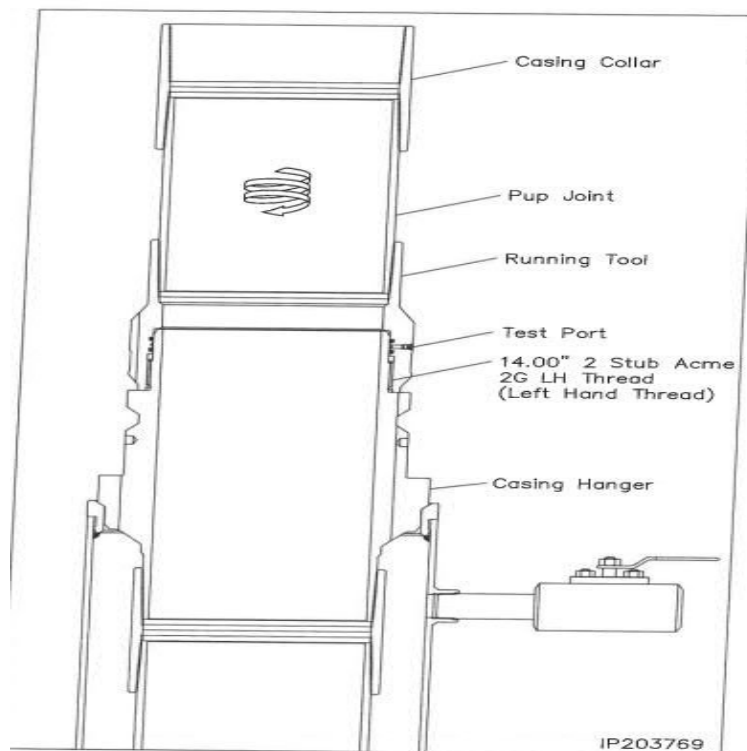


Illustration 1-1

Intermediate Casing – PR intends to Batch set all intermediate casing strings to a depth approved in the APD. Intermediate Holes will be batch drilled by the rig. Appropriate notifications will be made prior to testing BOPE, and prior to running/cementing all casing strings.

1. Rig will remove the nightcap and install and test BOPE.
2. Test Surface casing per COA WOC timing (.22 psi/ft or 1500 psi whichever is greater) - not to exceed 70% casing burst. Cement must have achieved 500psi compressive strength prior to test.
3. Install wear bushing then drill out surface casing shoe-track plus 20' and conduct FIT to minimum of the MW equivalent anticipated to control the formation pressure to the next casing point.
4. Drill Intermediate hole to approved casing point. Trip out of hole with BHA to run Casing.
5. Remove wear bushing then run and land Intermediate Casing with mandrel hanger in wellhead.
6. Cement casing to surface with floats holding.
7. Washout stack then run wash tool in wellhead and wash hanger and pack-off setting area.
8. Install pack-off and test void to 5,000 psi for 15 minutes. Nightcap shown on final wellhead stack up illustration 2-2 on page 3.
9. Test casing per COA WOC timing (.22 psi/ft or 1500 psi whichever is greater) - not to exceed 70% casing burst. Cement must have achieved 500psi compressive strength prior to test.
10. Install nightcap – skid rig to adjacent well to drill Intermediate hole.

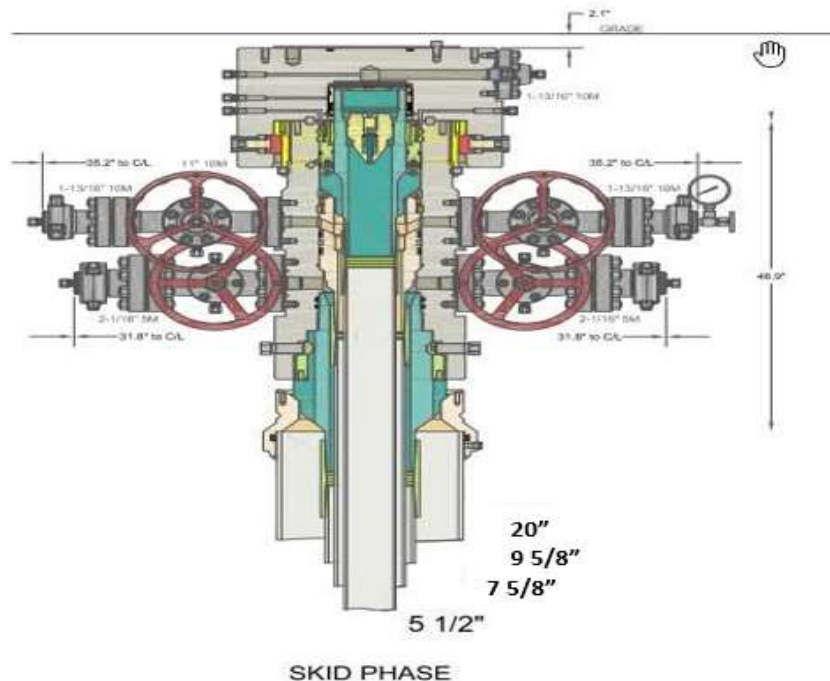


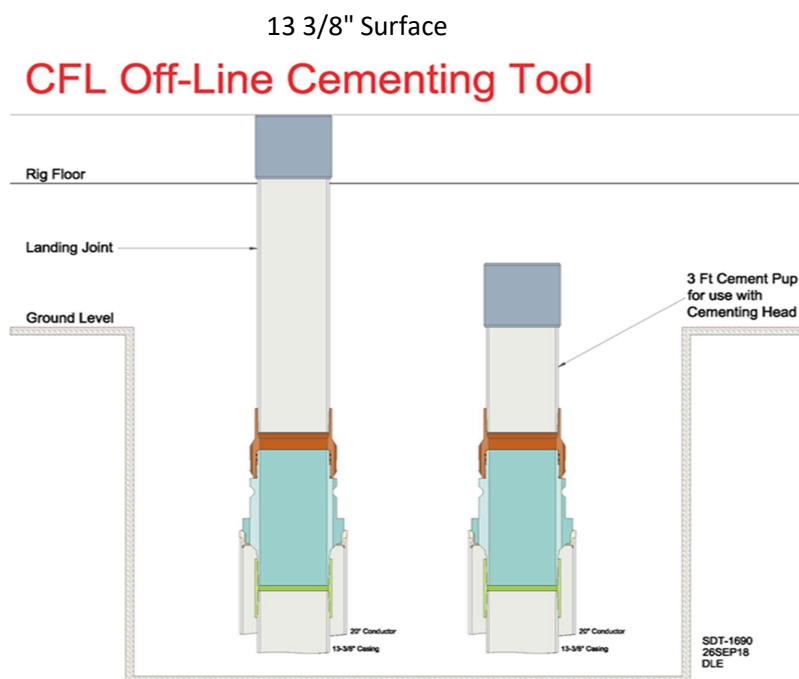
Illustration 2-2

Production Casing – PR intends to Batch set all Production casings with Rig. Appropriate notifications will be made prior Testing BOPE, and prior to running/cementing all casing strings.

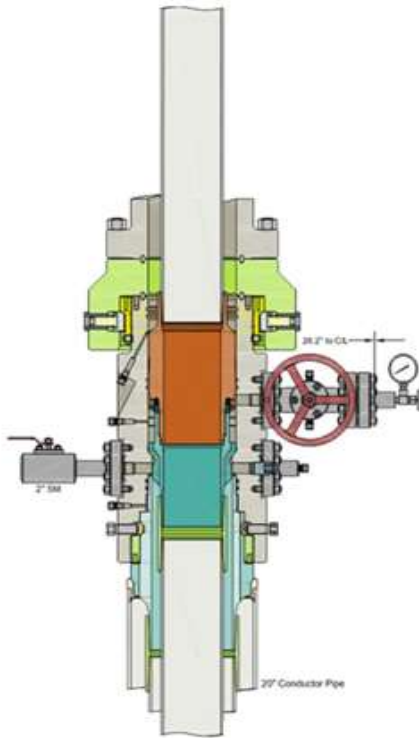
1. Drilling Rig will remove the nightcap and install and test BOPE.
2. Install wear bushing then drill Intermediate shoe-track plus 20' and conduct FIT to minimum MW equivalent to control the formation pressure to TD of well.
3. Drill Vertical hole to KOP – Trip out for Curve BHA.
4. Drill Curve, landing in production interval – Trip for Lateral BHA.
5. Drill Lateral / Production hole to Permitted BHL, perform cleanup cycles and trip out to run Production Casing.
6. Remove wear bushing then run Production casing to TD landing casing mandrel in wellhead.
7. Cement Production string with floats holding.
8. Run in with wash tool and wash wellhead area – install pack-off and test void to 5,000psi for 15 minutes.
9. Install BPV in Production mandrel hanger – Nipple down BOPE and install nightcap.
10. Test nightcap void to 5,000 psi for 30 minutes per illustration 2-2
11. Skid rig to adjacent well on pad to drill production hole.

Permian Resources Offline Cementing Procedure Surface & Intermediate Casing

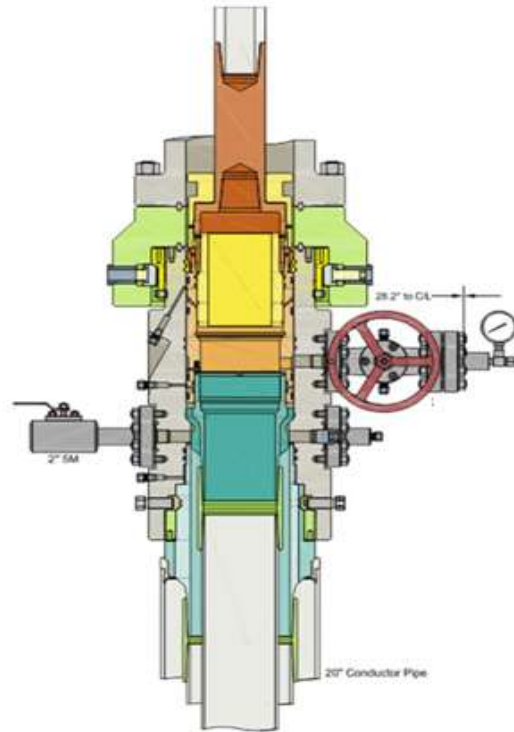
1. Drill hole to Total Depth with Rig and perform wellbore cleanup cycles.
2. Run and casing to Depth.
3. Land casing with mandrel.
4. Circulate 1.5 csg capacity.
5. Flow test – Confirm well is static and floats are holding.
6. Set Annular packoff and pressure test. Test to 5k.
7. Nipple down BOP and install cap flange.
8. Skid rig to next well on pad
9. Remove cap flange (confirm well is static before removal)
 - a) If well is not static use the casing outlet valves to kill well
 - b) Drillers method will be used in well control event
 - c) High pressure return line will be rigged up to lower casing valve and run to choke manifold to control annular pressure
 - d) Kill mud will be circulated once influx is circulated out of hole
 - e) Confirm well is static and remove cap flange to start offline cement operations
10. Install offline cement tool.
11. Rig up cementers.
12. Circulate bottoms up with cement truck
13. Commence planned cement job, take returns through the annulus wellhead valve
14. After plug is bumped confirm floats hold and well is static
15. Rig down cementers and equipment
16. Install night cap with pressure gauge to monitor.



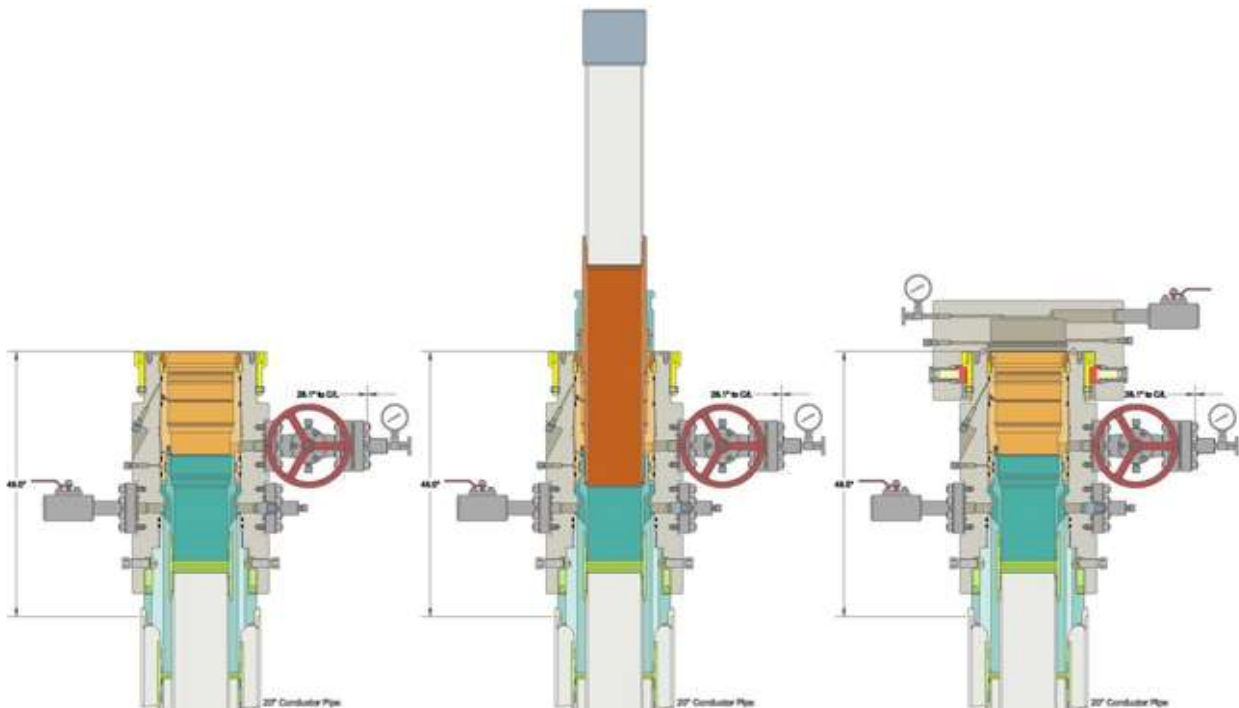
Intermediate



Run 7 5/8" Casing
Land Casing on 7 5/8" Mandrel Hanger
Cement 7 5/8" Casing
Retrieve Running Tool



Run 9 5/8" Packoff
Test Upper and Lower Seals
Engage Lockring
Retrieve Running Tool





Metal One Corp.

Metal One

MO-FXL

*1 Pipe Body: BMP P110HSCY MinYS125ksi
Min95%WT

CDS#

Date

MO-FXL 7-5/8 29.7

P110HSCY

MinYS125ksi

Min95%WT

20-Sep-23

Connection Data Sheet

MO-FXL

Geometry

Imperial

S.I.

Pipe Body

Grade *

P110HSCY

P110HSCY

Pipe OD (D)

7 5/8

in

193.68

mm

Weight

29.70

lb/ft

44.25

kg/m

Actual weight

29.04

lb/ft

43.26

kg/m

Wall Thickness (t)

0.375

in

9.53

mm

Pipe ID (d)

6.875

in

174.63

mm

Pipe body cross section

8.541

in²

5,510

mm²

Drift Dia.

6.750

in

171.45

mm

Connection

Box OD (W)

7.625

in

193.68

mm

PIN ID

6.875

in

174.63

mm

Make up Loss

4.219

in

107.16

mm

Box Critical Area

5.714

in²

3686

mm²

Joint load efficiency

70

%

70

%

Thread Taper

1 / 10 (1.2" per ft)

Number of Threads

5 TPI

Performance

Performance Properties for Pipe Body

S.M.Y.S. *1

1,068

kips

4,749

kN

M.I.Y.P. *1

11,680

psi

80.55

MPa

Collapse Strength *1

7,200

psi

49.66

MPa

Note

S.M.Y.S. = Specified Minimum YIELD Strength of Pipe body

M.I.Y.P. = Minimum Internal Yield Pressure of Pipe body

* BMP P110HSCY: MinYS125ksi, Min95%WT, Collapse Strength 7,200psi

Performance Data Sheet: 7.625" 29.7lb/ft P110HSCY Rev3, dated 9/19/2023

Performance Properties for Connection

Tensile Yield load

747

kips

70% of S.M.Y.S.)

Min.Compression Yield

747

kips

70% of S.M.Y.S.)

Internal Pressure

9,340

psi

80% of M.I.Y.P.)

External Pressure

100% of Collapse Strength

Max. DLS (deg./100ft)

30

Recommended Torque

Min.

15,500

ft-lb

21,000

N-m

Opti.

17,200

ft-lb

23,300

N-m

Max.

18,900

ft-lb

25,600

N-m

Operational Max.

23,600

ft-lb

32,000

N-m

Note : Operational Max. torque can be applied for high torque application

Box critical area

d

D

Pin critical area

Make up loss

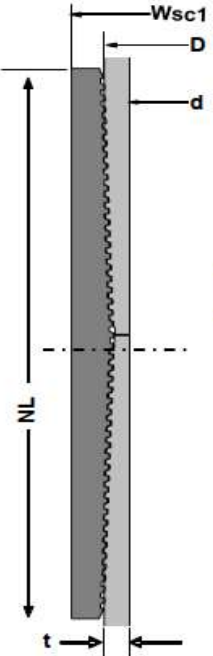
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Statements regarding the suitability of products for certain types of applications are based on Metal One's knowledge of typical requirements that are often placed on Metal One products in standard well configurations. Such statements are not binding statements about the suitability of products for a particular application. It is the customer's responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application.

The products described in this Connection Data Sheet are not recommended for use in deep water offshore applications. For more information, please refer to http://www.mfco.co.jp/mo-con/images/Shop/WebsiteTerms_Active_20230207_1.pdf the contents of which are incorporated by reference into this Connection Data Sheet.

Metal One Corp. 	GEOCONN-SC Pipe Body: SeAH P110RY(SMYS110ksi) & 95%RBW *1 Coupling: P110CY (SMYS110ksi) Connection Data Sheet	Page Date Rev.	MAI GC 5.5 20 SeAH PRY 95%RW SC-CpIgOD 6.050 P110CY 29-Sep-21 0
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GEOCONN-SC

Geometry		Imperial		S.I.	
Pipe Body					
Grade *1	SeAH P110RY	-	SeAH P110RY		
SMYS	110	ksi	110		ksi
Pipe OD (D)	5.500	in	139.70		mm
Weight	20.00	lb/ft	29.80		kg/m
Wall Thickness (t)	0.361	in	9.17		mm
Pipe ID (d)	4.778	in	121.36		mm
Drift Dia.	4.653	in	118.19		mm
Connection					
Coupling SMYS	110	ksi	110		ksi
Coupling OD (Wsc1)	6.050	in	153.67		mm
Coupling Length (NL)	8.350	in	212.09		mm
Make up Loss	4.125	in	104.78		mm
Pipe Critical Area	5.83	in ²	3,760		mm ²
Box Critical Area	6.00	in ²	3,874		mm ²
Thread Taper	1 / 16 (3/4" per ft)				
Number of Threads	5 TPI				

Performance		Imperial		S.I.	
Performance Properties for Pipe Body					
S.M.Y.S.	641	kips	2,852		kN
M.I.Y.P. *1	13,720	psi	94.62		MPa
Collapse Strength	11,100	psi	76.55		MPa
Note S.M.Y.S.= Specified Minimum YIELD Strength of Pipe body M.I.Y.P. = Minimum Internal Yield Pressure of Pipe body *1 Pipe: SeAH P110RY (SMYS110ksi), Min Wall Thickness of Pipe Body: 95% of Nom wall					
Performance Properties for Connection					
Min. Connection Joint Strength	100% of S.M.Y.S.				
Min. Compression Yield	100% of S.M.Y.S.				
Internal Pressure	100% of M.I.Y.P.				
External Pressure	100% of Collapse Strength				
Max. DLS (deg. /100ft)	>90				

Recommended Torque		Imperial		S.I.	
Min.	14,600	ft-lb	19,700		N-m
Opti.	16,200	ft-lb	21,900		N-m
Max.	17,800	ft-lb	24,100		N-m
Operational Max.	19,500	ft-lb	26,400		N-m

Note : Operational Max. torque can be applied for high torque application

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5.5" 20# .361" P-110 Restricted Yield (RY)

Dimensions (Nominal)

Outside Diameter	5.500	in.
Wall	0.361	in.
Inside Diameter	4.778	in.
Drift	4.653	in.
Weight, T&C	20.000	lbs/ft
Weight, PE	19.830	lbs/ft

Performance Properties (Minimum)

Minimum Yield Strength	110000	psi
Maximum Yield Strength	125000	psi
Collapse, PE	11100	psi
Internal Yield Pressure		
PE	12630	psi
LTC	12360	psi
BTC	12360	psi
Yield Strength, Pipe Body	641	1000 lbs
Joint Strength		
LTC	548	1000 lbs
BTC	667	1000 lbs

Note: SeAH Steel has produced this specification sheet for general information only. SeAH does not assume liability or responsibility for any loss or injury resulting from the use of information or data contained herein. All applications for the material described are at the customer's own risk and responsibility.



5.500 x 20.00# P-110 RY Bushmaster® SL (95% RBW)

Pipe Body Data		
Nominal OD	5.500	Inches
Wall Thickness	0.361	Inches
Weight	20.00	lb/ft
PE Weight	19.83	lb/ft
Nominal ID	4.778	Inches
Drift	4.653	Inches
Minimum Yield Strength	110,000	PSI
Minimum Tensile Strength	125,000	PSI
RBW	95.0%	Rating

Connection Data		
Connection OD	5.900	Inches
Connection ID	4.778	Inches
Make-Up Loss	4.892	Inches
Tension Efficiency	100%	Rating
Compression Efficiency	100%	Rating
Yield Strength in Tension	641,000	LBS.
Yield Strength in Compression	641,000	LBS.
MIYP (Burst)	13,720	PSI
Collapse*	11,110	PSI
Uniaxial Bending	92	°/100 FT

Make-Up Torque		
Yield Torque	41,000	FT-LBS.
Max Operating Torque	32,800	FT-LBS.
Max Make-Up	22,000	FT-LBS.
Optimum Make-Up	20,000	FT-LBS.
Minimum Make-Up	18,000	FT-LBS.



For Technical Support please email support@fermata-tech.com or call (281) 941-5257.

9/21/2023

This document is for general information only. It is not intended to be used or relied upon as a recommendation or professional advice for any specific application and is subject to change without notice. Anyone who uses this material does so at their own right and assumes any and all liability resulting from such use.

*Collapse value based on API collapse +10-15% depending on D/t ratio and is used for example only. The actual collapse rating is 100% of pipe body and will vary depending on the mill. Verify the collapse rating of the pipe body with the manufacturer.

NEW MEXICO

(SP) LEA

EL CAMPEON FED COM PROJECT

EL CAMPEON FED COM 511H

OWB

PWP0

Anticollision Report

13 December, 2023

Permian Resources

Anticollision Report

Company:	NEW MEXICO	Local Co-ordinate Reference:	Well EL CAMPEON FED COM 511H
Project:	(SP) LEA	TVD Reference:	KB @ 3200.0usft
Reference Site:	EL CAMPEON FED COM PROJECT	MD Reference:	KB @ 3200.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	EL CAMPEON FED COM 511H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Compass
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Reference	PWP0		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	Stations	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum centre distance of 800.0usft	Error Surface:	Pedal Curve
Warning Levels Evaluated at:	2.00 Sigma	Casing Method:	Not applied

Survey Tool Program		Date	12/13/2023		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.0	21,239.3	PWP0 (OWB)	MWD	OWSG_Rev2_ MWD - Standard	

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
EL CAMPEON FED COM PROJECT						
EL CAMPEON FED COM 301H - OWB - PWP0	1,966.0	1,968.0	60.0	46.1	4.321	CC
EL CAMPEON FED COM 301H - OWB - PWP0	2,000.0	2,002.0	60.0	45.9	4.246	ES
EL CAMPEON FED COM 301H - OWB - PWP0	2,100.0	2,100.9	61.7	46.9	4.169	SF
EL CAMPEON FED COM 401H - OWB - PWP0	1,966.5	1,967.0	30.0	16.1	2.161	CC
EL CAMPEON FED COM 401H - OWB - PWP0	2,200.0	2,199.3	30.8	15.4	1.994	ES
EL CAMPEON FED COM 401H - OWB - PWP0	12,300.0	12,303.0	109.3	22.3	1.257	Level 3, SF
EL CAMPEON FED COM 431H - OWB - PWP0	2,000.0	2,000.0	30.0	15.9	2.124	CC
EL CAMPEON FED COM 431H - OWB - PWP0	2,100.0	2,100.1	30.7	15.9	2.072	ES
EL CAMPEON FED COM 431H - OWB - PWP0	21,200.0	20,855.3	380.4	171.3	1.820	SF

Offset Design:	EL CAMPEON FED COM PROJECT - EL CAMPEON FED COM 301H - OWB - PWP0										Offset Site Error:	0.0 usft
Survey Program:	0-MWD										Offset Well Error:	0.0 usft
Reference	Offset	Semi Major Axis	Highside	Offset Wellbore Centre	Rule Assigned:	Distance	Minimum	Separation	Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Tooface (")	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)	Factor
0.0	0.0	2.0	2.0	0.0	0.0	89.53	0.5	60.0	60.0			
100.0	100.0	102.0	102.0	0.3	0.3	89.53	0.5	60.0	60.0	59.5	0.51	117.875
200.0	200.0	202.0	202.0	0.6	0.6	89.53	0.5	60.0	60.0	58.8	1.23	48.942
300.0	300.0	302.0	302.0	1.0	1.0	89.53	0.5	60.0	60.0	58.1	1.94	30.882
400.0	400.0	402.0	402.0	1.3	1.3	89.53	0.5	60.0	60.0	57.3	2.66	22.558
500.0	500.0	502.0	502.0	1.7	1.7	89.53	0.5	60.0	60.0	56.6	3.38	17.769
600.0	600.0	602.0	602.0	2.0	2.1	89.53	0.5	60.0	60.0	55.9	4.09	14.657
700.0	700.0	702.0	702.0	2.4	2.4	89.53	0.5	60.0	60.0	55.2	4.81	12.473
800.0	800.0	802.0	802.0	2.8	2.8	89.53	0.5	60.0	60.0	54.5	5.53	10.855
900.0	900.0	902.0	902.0	3.1	3.1	89.53	0.5	60.0	60.0	53.8	6.24	9.609
1,000.0	1,000.0	1,002.0	1,002.0	3.5	3.5	89.53	0.5	60.0	60.0	53.0	6.96	8.619
1,100.0	1,100.0	1,102.0	1,102.0	3.8	3.8	89.53	0.5	60.0	60.0	52.3	7.68	7.814
1,200.0	1,200.0	1,202.0	1,202.0	4.2	4.2	89.53	0.5	60.0	60.0	51.6	8.40	7.147
1,300.0	1,300.0	1,302.0	1,302.0	4.6	4.6	89.53	0.5	60.0	60.0	50.9	9.11	6.585
1,400.0	1,400.0	1,402.0	1,402.0	4.9	4.9	89.53	0.5	60.0	60.0	50.2	9.83	6.104
1,500.0	1,500.0	1,502.0	1,502.0	5.3	5.3	89.53	0.5	60.0	60.0	49.5	10.55	5.689
1,600.0	1,600.0	1,602.0	1,602.0	5.6	5.6	89.53	0.5	60.0	60.0	48.7	11.26	5.327
1,700.0	1,700.0	1,702.0	1,702.0	6.0	6.0	89.53	0.5	60.0	60.0	48.0	11.98	5.008

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Permian Resources

Anticollision Report

Company:	NEW MEXICO	Local Co-ordinate Reference:	Well EL CAMPEON FED COM 511H
Project:	(SP) LEA	TVD Reference:	KB @ 3200.0usft
Reference Site:	EL CAMPEON FED COM PROJECT	MD Reference:	KB @ 3200.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	EL CAMPEON FED COM 511H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Compass
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design:EL CAMPEON FED COM PROJECT - EL CAMPEON FED COM 301H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-MWD		Offset		Semi Major Axis		Offset Wellbore Centre			Rule Assigned: Distance				Offset Well Error:	0.0 usft
Reference	Measured	Reference	Measured	Reference	Offset	Highside	+N/-S	+E/-W	Between	Between	Minimum	Separation	Warning	
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	Toolface (°)	(usft)	(usft)	Centres (usft)	Ellipses (usft)	Separation (usft)	Factor		
1,800.0	1,800.0	1,802.0	1,802.0	6.3	6.4	89.53	0.5	60.0	60.0	47.3	12.70	4.726		
1,900.0	1,900.0	1,902.0	1,902.0	6.7	6.7	89.53	0.5	60.0	60.0	46.6	13.41	4.473		
1,966.0	1,966.0	1,968.0	1,968.0	6.9	6.9	89.53	0.5	60.0	60.0	46.1	13.89	4.321 CC		
2,000.0	2,000.0	2,002.0	2,002.0	7.1	7.1	89.53	0.5	60.0	60.0	45.9	14.13	4.246 ES		
2,100.0	2,100.0	2,100.9	2,100.8	7.4	7.4	-116.89	-1.0	60.9	61.7	46.9	14.81	4.169 SF		
2,200.0	2,199.8	2,200.0	2,199.8	7.7	7.7	-116.97	-5.4	63.7	66.8	51.4	15.45	4.325		
2,300.0	2,299.5	2,298.0	2,297.4	8.1	8.1	-117.09	-12.6	68.2	75.3	59.2	16.09	4.680		
2,400.0	2,398.7	2,395.8	2,394.6	8.4	8.4	-117.22	-22.7	74.5	87.1	70.4	16.74	5.205		
2,500.0	2,497.5	2,493.0	2,490.6	8.7	8.7	-117.30	-35.4	82.4	102.2	84.8	17.39	5.879		
2,600.0	2,595.9	2,589.6	2,585.4	9.1	9.1	-116.93	-50.8	92.0	119.8	101.8	18.05	6.639		
2,700.0	2,694.4	2,687.6	2,681.3	9.5	9.4	-115.93	-68.1	102.8	138.5	119.7	18.75	7.386		
2,800.0	2,792.9	2,785.8	2,777.4	9.8	9.8	-115.16	-85.4	113.6	157.2	137.7	19.47	8.074		
2,900.0	2,891.4	2,884.0	2,873.4	10.2	10.2	-114.55	-102.7	124.4	175.9	155.7	20.20	8.708		
3,000.0	2,989.9	2,982.2	2,969.5	10.6	10.6	-114.06	-120.0	135.3	194.6	173.7	20.94	9.292		
3,100.0	3,088.3	3,080.5	3,065.6	11.0	11.0	-113.66	-137.3	146.1	213.3	191.6	21.70	9.832		
3,200.0	3,186.8	3,178.7	3,161.7	11.4	11.4	-113.32	-154.7	156.9	232.1	209.6	22.46	10.331		
3,300.0	3,285.3	3,276.9	3,257.7	11.8	11.8	-113.03	-172.0	167.7	250.8	227.6	23.24	10.793		
3,400.0	3,383.8	3,375.1	3,353.8	12.2	12.2	-112.78	-189.3	178.5	269.6	245.5	24.02	11.222		
3,500.0	3,482.3	3,473.3	3,449.9	12.6	12.6	-112.57	-206.6	189.3	288.3	263.5	24.81	11.620		
3,600.0	3,580.8	3,571.6	3,546.0	13.0	13.1	-112.38	-223.9	200.1	307.1	281.5	25.61	11.991		
3,700.0	3,679.2	3,669.8	3,642.0	13.4	13.5	-112.21	-241.3	211.0	325.8	299.4	26.41	12.337		
3,800.0	3,777.7	3,768.0	3,738.1	13.8	13.9	-112.06	-258.6	221.8	344.6	317.4	27.22	12.660		
3,900.0	3,876.2	3,866.2	3,834.2	14.2	14.4	-111.93	-275.9	232.6	363.4	335.3	28.04	12.962		
4,000.0	3,974.7	3,964.4	3,930.2	14.7	14.8	-111.81	-293.2	243.4	382.2	353.3	28.85	13.245		
4,100.0	4,073.2	4,062.7	4,026.3	15.1	15.2	-111.70	-310.6	254.2	400.9	371.2	29.68	13.510		
4,200.0	4,171.6	4,160.9	4,122.4	15.5	15.7	-111.60	-327.9	265.0	419.7	389.2	30.50	13.759		
4,300.0	4,270.1	4,259.1	4,218.5	15.9	16.1	-111.51	-345.2	275.9	438.5	407.1	31.33	13.994		
4,400.0	4,368.6	4,357.3	4,314.5	16.4	16.6	-111.42	-362.5	286.7	457.2	425.1	32.17	14.215		
4,500.0	4,467.1	4,455.5	4,410.6	16.8	17.0	-111.35	-379.8	297.5	476.0	443.0	33.00	14.424		
4,600.0	4,565.6	4,563.5	4,516.5	17.2	17.5	-111.42	-397.6	308.5	493.9	460.0	33.93	14.557		
4,700.0	4,664.0	4,673.5	4,625.2	17.6	18.0	-111.87	-412.1	317.6	509.7	474.8	34.85	14.623		
4,800.0	4,762.5	4,783.9	4,734.8	18.1	18.4	-112.67	-423.2	324.6	523.2	487.5	35.75	14.637		
4,818.8	4,781.0	4,804.7	4,755.5	18.2	18.5	-112.86	-424.9	325.6	525.6	489.6	35.92	14.633		
4,900.0	4,861.2	4,894.5	4,845.1	18.5	18.8	-113.85	-430.7	329.2	534.3	497.7	36.61	14.596		
5,000.0	4,960.4	5,005.5	4,955.9	18.9	19.2	-114.97	-434.5	331.6	541.9	504.5	37.41	14.487		
5,100.0	5,059.9	5,111.5	5,061.9	19.3	19.6	-115.94	-435.1	332.0	546.3	508.2	38.13	14.326		
5,200.0	5,159.7	5,211.3	5,161.7	19.7	19.9	-116.54	-435.1	332.0	548.9	510.1	38.82	14.142		
5,300.0	5,259.7	5,311.3	5,261.7	20.0	20.2	-116.78	-435.1	332.0	550.0	510.5	39.48	13.932		
5,318.8	5,278.5	5,330.1	5,280.5	20.1	20.2	89.65	-435.1	332.0	550.0	510.4	39.60	13.890		
5,400.0	5,359.7	5,411.3	5,361.7	20.3	20.5	89.65	-435.1	332.0	550.0	509.9	40.12	13.710		
5,500.0	5,459.7	5,511.3	5,461.7	20.6	20.8	89.65	-435.1	332.0	550.0	509.3	40.76	13.495		
5,600.0	5,559.7	5,611.3	5,561.7	21.0	21.1	89.65	-435.1	332.0	550.0	508.6	41.40	13.285		
5,700.0	5,659.7	5,711.3	5,661.7	21.3	21.5	89.65	-435.1	332.0	550.0	508.0	42.05	13.081		
5,800.0	5,759.7	5,811.3	5,761.7	21.6	21.8	89.65	-435.1	332.0	550.0	507.3	42.69	12.883		
5,900.0	5,859.7	5,911.3	5,861.7	21.9	22.1	89.65	-435.1	332.0	550.0	506.7	43.34	12.690		
6,000.0	5,959.7	6,011.3	5,961.7	22.2	22.4	89.65	-435.1	332.0	550.0	506.0	43.99	12.502		
6,100.0	6,059.7	6,111.3	6,061.7	22.6	22.7	89.65	-435.1	332.0	550.0	505.4	44.65	12.319		
6,200.0	6,159.7	6,211.3	6,161.7	22.9	23.1	89.65	-435.1	332.0	550.0	504.7	45.30	12.140		
6,300.0	6,259.7	6,311.3	6,261.7	23.2	23.4	89.65	-435.1	332.0	550.0	504.0	45.96	11.967		
6,400.0	6,359.7	6,411.3	6,361.7	23.5	23.7	89.65	-435.1	332.0	550.0	503.4	46.62	11.797		
6,500.0	6,459.7	6,511.3	6,461.7	23.9	24.0	89.65	-435.1	332.0	550.0	502.7	47.28	11.632		
6,600.0	6,559.7	6,611.3	6,561.7	24.2	24.4	89.65	-435.1	332.0	550.0	502.1	47.94	11.472		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Permian Resources

Anticollision Report

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Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	EL CAMPEON FED COM 511H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Compass
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: EL CAMPEON FED COM PROJECT - EL CAMPEON FED COM 301H - OWB - PWP0													Offset Site Error: 0.0 usft
Survey Program: 0-MWD													Offset Well Error: 0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Rule Assigned: Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
6,700.0	6,659.7	6,711.3	6,661.7	24.5	24.7	89.65	-435.1	332.0	550.0	501.4	48.61	11.315	
6,800.0	6,759.7	6,811.3	6,761.7	24.8	25.0	89.65	-435.1	332.0	550.0	500.7	49.27	11.162	
6,900.0	6,859.7	6,911.3	6,861.7	25.2	25.4	89.65	-435.1	332.0	550.0	500.1	49.94	11.013	
7,000.0	6,959.7	7,011.3	6,961.7	25.5	25.7	89.65	-435.1	332.0	550.0	499.4	50.61	10.868	
7,100.0	7,059.7	7,111.3	7,061.7	25.8	26.0	89.65	-435.1	332.0	550.0	498.7	51.28	10.726	
7,200.0	7,159.7	7,211.3	7,161.7	26.2	26.4	89.65	-435.1	332.0	550.0	498.1	51.95	10.587	
7,300.0	7,259.7	7,311.3	7,261.7	26.5	26.7	89.65	-435.1	332.0	550.0	497.4	52.62	10.452	
7,400.0	7,359.7	7,411.3	7,361.7	26.8	27.0	89.65	-435.1	332.0	550.0	496.7	53.30	10.320	
7,500.0	7,459.7	7,511.3	7,461.7	27.2	27.4	89.65	-435.1	332.0	550.0	496.0	53.97	10.191	
7,600.0	7,559.7	7,611.3	7,561.7	27.5	27.7	89.65	-435.1	332.0	550.0	495.4	54.65	10.065	
7,700.0	7,659.7	7,711.3	7,661.7	27.8	28.0	89.65	-435.1	332.0	550.0	494.7	55.32	9.942	
7,800.0	7,759.7	7,811.3	7,761.7	28.2	28.4	89.65	-435.1	332.0	550.0	494.0	56.00	9.821	
7,900.0	7,859.7	7,911.3	7,861.7	28.5	28.7	89.65	-435.1	332.0	550.0	493.3	56.68	9.704	
8,000.0	7,959.7	8,011.3	7,961.7	28.9	29.0	89.65	-435.1	332.0	550.0	492.7	57.36	9.589	
8,100.0	8,059.7	8,111.3	8,061.7	29.2	29.4	89.65	-435.1	332.0	550.0	492.0	58.04	9.476	
8,200.0	8,159.7	8,211.3	8,161.7	29.5	29.7	89.65	-435.1	332.0	550.0	491.3	58.72	9.367	
8,300.0	8,259.7	8,311.3	8,261.7	29.9	30.1	89.65	-435.1	332.0	550.0	490.6	59.40	9.259	
8,400.0	8,359.7	8,411.3	8,361.7	30.2	30.4	89.65	-435.1	332.0	550.0	489.9	60.09	9.154	
8,500.0	8,459.7	8,511.3	8,461.7	30.6	30.7	89.65	-435.1	332.0	550.0	489.2	60.77	9.051	
8,600.0	8,559.7	8,611.3	8,561.7	30.9	31.1	89.65	-435.1	332.0	550.0	488.6	61.45	8.950	
8,700.0	8,659.7	8,711.3	8,661.7	31.2	31.4	89.65	-435.1	332.0	550.0	487.9	62.14	8.851	
8,800.0	8,759.7	8,811.3	8,761.7	31.6	31.8	89.65	-435.1	332.0	550.0	487.2	62.83	8.755	
8,900.0	8,859.7	8,911.3	8,861.7	31.9	32.1	89.65	-435.1	332.0	550.0	486.5	63.51	8.660	
9,000.0	8,959.7	9,011.3	8,961.7	32.3	32.4	89.65	-435.1	332.0	550.0	485.8	64.20	8.567	
9,100.0	9,059.7	9,111.3	9,061.7	32.6	32.8	89.65	-435.1	332.0	550.0	485.1	64.89	8.476	
9,200.0	9,159.7	9,211.3	9,161.7	32.9	33.1	89.65	-435.1	332.0	550.0	484.4	65.58	8.387	
9,300.0	9,259.7	9,311.3	9,261.7	33.3	33.5	89.65	-435.1	332.0	550.0	483.7	66.26	8.300	
9,400.0	9,359.7	9,411.3	9,361.7	33.6	33.8	89.65	-435.1	332.0	550.0	483.1	66.95	8.215	
9,500.0	9,459.7	9,511.3	9,461.7	34.0	34.2	89.65	-435.1	332.0	550.0	482.4	67.65	8.131	
9,600.0	9,559.7	9,611.3	9,561.7	34.3	34.5	89.65	-435.1	332.0	550.0	481.7	68.34	8.049	
9,700.0	9,659.7	9,711.3	9,661.7	34.7	34.9	89.65	-435.1	332.0	550.0	481.0	69.03	7.968	
9,800.0	9,759.7	9,811.3	9,761.7	35.0	35.2	89.65	-435.1	332.0	550.0	480.3	69.72	7.889	
9,900.0	9,859.7	9,911.3	9,861.7	35.3	35.5	89.65	-435.1	332.0	550.0	479.6	70.41	7.811	
10,000.0	9,959.7	10,011.3	9,961.7	35.7	35.9	89.65	-435.1	332.0	550.0	478.9	71.10	7.735	
10,100.0	10,059.7	10,111.3	10,061.7	36.0	36.2	89.65	-435.1	332.0	550.0	478.2	71.80	7.661	
10,200.0	10,159.7	10,211.3	10,161.7	36.4	36.6	89.65	-435.1	332.0	550.0	477.5	72.49	7.587	
10,300.0	10,259.7	10,311.3	10,261.7	36.7	36.9	89.65	-435.1	332.0	550.0	476.8	73.19	7.515	
10,400.0	10,359.7	10,411.3	10,361.7	37.1	37.3	89.65	-435.1	332.0	550.0	476.1	73.88	7.445	
10,500.0	10,459.7	10,511.3	10,461.7	37.4	37.6	89.65	-435.1	332.0	550.0	475.4	74.58	7.375	
10,600.0	10,559.7	10,611.3	10,561.7	37.8	38.0	89.65	-435.1	332.0	550.0	474.7	75.27	7.307	
10,700.0	10,659.7	10,711.3	10,661.7	38.1	38.3	89.65	-435.1	332.0	550.0	474.0	75.97	7.240	
10,800.0	10,759.7	10,811.3	10,761.7	38.5	38.7	89.65	-435.1	332.0	550.0	473.3	76.66	7.174	
10,900.0	10,859.7	10,911.3	10,861.7	38.8	39.0	89.65	-435.1	332.0	550.0	472.7	77.36	7.110	
11,000.0	10,959.7	11,011.3	10,961.7	39.2	39.3	89.65	-435.1	332.0	550.0	472.0	78.06	7.046	
11,100.0	11,059.7	11,111.3	11,061.7	39.5	39.7	89.65	-435.1	332.0	550.0	471.3	78.75	6.984	
11,200.0	11,159.7	11,211.3	11,161.7	39.8	40.0	89.65	-435.1	332.0	550.0	470.6	79.45	6.923	
11,300.0	11,259.7	11,311.3	11,261.7	40.2	40.4	89.65	-435.1	332.0	550.0	469.9	80.15	6.862	
11,400.0	11,359.7	11,411.3	11,361.7	40.5	40.7	89.65	-435.1	332.0	550.0	469.2	80.85	6.803	
11,500.0	11,459.7	11,511.3	11,461.7	40.9	41.1	89.65	-435.1	332.0	550.0	468.5	81.55	6.745	
11,502.4	11,462.1	11,513.7	11,464.1	40.9	41.1	89.65	-435.1	332.0	550.0	468.4	81.56	6.743	
11,600.0	11,559.7	11,611.0	11,561.4	41.2	41.4	89.80	-436.6	332.0	550.0	467.8	82.24	6.688	
11,700.0	11,659.7	11,707.1	11,655.7	41.6	41.8	91.59	-453.8	332.2	550.4	467.5	82.94	6.636	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

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COMPASS 5000.17 Build 03

Permian Resources

Anticollision Report

Company:	NEW MEXICO	Local Co-ordinate Reference:	Well EL CAMPEON FED COM 511H
Project:	(SP) LEA	TVD Reference:	KB @ 3200.0usft
Reference Site:	EL CAMPEON FED COM PROJECT	MD Reference:	KB @ 3200.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	EL CAMPEON FED COM 511H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Compass
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design:EL CAMPEON FED COM PROJECT - EL CAMPEON FED COM 301H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-MWD												Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned: Distance Between		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Centres (usft)	Ellipses (usft)			
11,800.0	11,759.7	11,793.2	11,735.9	41.9	42.1	94.83	-485.0	332.5	553.0	469.5	83.58	6.617	
11,900.0	11,859.7	11,866.4	11,798.7	42.3	42.4	98.66	-522.4	332.9	560.8	476.8	83.97	6.678	
12,000.0	11,959.7	11,925.0	11,844.4	42.6	42.7	102.34	-559.0	333.2	576.3	492.5	83.83	6.875	
12,100.0	12,059.7	11,975.0	11,879.6	43.0	42.9	105.79	-594.5	333.6	601.4	518.4	83.06	7.241	
12,200.0	12,159.7	12,015.4	11,905.2	43.3	43.1	108.74	-625.8	333.9	636.7	555.1	81.66	7.798	
12,300.0	12,259.7	12,050.0	11,925.0	43.7	43.3	111.33	-654.1	334.1	681.7	601.9	79.84	8.538	
12,400.0	12,359.7	12,075.0	11,938.0	44.0	43.4	113.22	-675.5	334.4	735.4	657.7	77.71	9.463	
12,500.0	12,459.7	12,100.0	11,949.8	44.4	43.5	115.11	-697.5	334.6	796.5	720.8	75.70	10.523	

Permian Resources

Anticollision Report

Company:	NEW MEXICO	Local Co-ordinate Reference:	Well EL CAMPEON FED COM 511H
Project:	(SP) LEA	TVD Reference:	KB @ 3200.0usft
Reference Site:	EL CAMPEON FED COM PROJECT	MD Reference:	KB @ 3200.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	EL CAMPEON FED COM 511H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Compass
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: EL CAMPEON FED COM PROJECT - EL CAMPEON FED COM 401H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program:		0-MWD		Rule Assigned:							Offset Well Error:	0.0 usft		
Reference	Offset	Semi Major Axis	Highside	Offset Wellbore Centre		Distance		Warning						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.0	0.0	0.5	0.5	0.0	0.0	-90.46	-0.2	-30.0	30.0					
100.0	100.0	100.5	100.5	0.3	0.3	-90.46	-0.2	-30.0	30.0	29.5	0.50	59.567		
200.0	200.0	200.5	200.5	0.6	0.6	-90.46	-0.2	-30.0	30.0	28.8	1.22	24.579		
300.0	300.0	300.5	300.5	1.0	1.0	-90.46	-0.2	-30.0	30.0	28.1	1.94	15.484		
400.0	400.0	400.5	400.5	1.3	1.3	-90.46	-0.2	-30.0	30.0	27.3	2.65	11.302		
500.0	500.0	500.5	500.5	1.7	1.7	-90.46	-0.2	-30.0	30.0	26.6	3.37	8.899		
600.0	600.0	600.5	600.5	2.0	2.0	-90.46	-0.2	-30.0	30.0	25.9	4.09	7.338		
700.0	700.0	700.5	700.5	2.4	2.4	-90.46	-0.2	-30.0	30.0	25.2	4.81	6.243		
800.0	800.0	800.5	800.5	2.8	2.8	-90.46	-0.2	-30.0	30.0	24.5	5.52	5.433		
900.0	900.0	900.5	900.5	3.1	3.1	-90.46	-0.2	-30.0	30.0	23.8	6.24	4.808		
1,000.0	1,000.0	1,000.5	1,000.5	3.5	3.5	-90.46	-0.2	-30.0	30.0	23.0	6.96	4.313		
1,100.0	1,100.0	1,100.5	1,100.5	3.8	3.8	-90.46	-0.2	-30.0	30.0	22.3	7.67	3.910		
1,200.0	1,200.0	1,200.5	1,200.5	4.2	4.2	-90.46	-0.2	-30.0	30.0	21.6	8.39	3.576		
1,300.0	1,300.0	1,300.5	1,300.5	4.6	4.6	-90.46	-0.2	-30.0	30.0	20.9	9.11	3.294		
1,400.0	1,400.0	1,400.5	1,400.5	4.9	4.9	-90.46	-0.2	-30.0	30.0	20.2	9.82	3.054		
1,500.0	1,500.0	1,500.5	1,500.5	5.3	5.3	-90.46	-0.2	-30.0	30.0	19.5	10.54	2.846		
1,600.0	1,600.0	1,600.5	1,600.5	5.6	5.6	-90.46	-0.2	-30.0	30.0	18.7	11.26	2.665		
1,700.0	1,700.0	1,700.5	1,700.5	6.0	6.0	-90.46	-0.2	-30.0	30.0	18.0	11.97	2.505		
1,800.0	1,800.0	1,800.5	1,800.5	6.3	6.3	-90.46	-0.2	-30.0	30.0	17.3	12.69	2.364		
1,900.0	1,900.0	1,900.5	1,900.5	6.7	6.7	-90.46	-0.2	-30.0	30.0	16.6	13.41	2.237		
1,966.5	1,966.5	1,967.0	1,967.0	6.9	6.9	-90.46	-0.2	-30.0	30.0	16.1	13.89	2.161	CC	
2,000.0	2,000.0	2,000.5	2,000.5	7.1	7.1	-90.46	-0.2	-30.0	30.0	15.9	14.13	2.124		
2,100.0	2,100.0	2,100.0	2,100.0	7.4	7.4	63.32	-1.7	-31.0	30.2	15.4	14.80	2.040		
2,200.0	2,199.8	2,199.3	2,199.2	7.7	7.7	63.98	-6.0	-33.9	30.8	15.4	15.45	1.994	ES	
2,300.0	2,299.5	2,298.7	2,298.2	8.1	8.1	65.05	-13.1	-38.7	31.8	15.7	16.09	1.976		
2,400.0	2,398.7	2,398.1	2,396.8	8.4	8.4	66.45	-23.1	-45.5	33.2	16.5	16.75	1.983		
2,500.0	2,497.5	2,497.5	2,495.0	8.7	8.7	68.08	-35.9	-54.1	35.0	17.6	17.41	2.012		
2,600.0	2,595.9	2,597.4	2,593.4	9.1	9.1	69.63	-50.3	-63.9	37.1	19.0	18.12	2.049		
2,700.0	2,694.4	2,697.4	2,691.9	9.5	9.5	71.01	-64.7	-73.6	39.3	20.4	18.85	2.083		
2,800.0	2,792.9	2,797.4	2,790.3	9.8	9.8	72.25	-79.1	-83.3	41.4	21.8	19.59	2.114		
2,900.0	2,891.4	2,897.4	2,888.8	10.2	10.2	73.37	-93.4	-93.1	43.6	23.2	20.34	2.142		
3,000.0	2,989.9	2,997.3	2,987.2	10.6	10.6	74.38	-107.8	-102.8	45.7	24.6	21.11	2.167		
3,100.0	3,088.3	3,097.3	3,085.7	11.0	11.0	75.30	-122.2	-112.5	47.9	26.0	21.88	2.190		
3,200.0	3,186.8	3,197.3	3,184.2	11.4	11.4	76.14	-136.6	-122.2	50.1	27.5	22.67	2.211		
3,300.0	3,285.3	3,297.3	3,282.6	11.8	11.8	76.90	-151.0	-132.0	52.3	28.9	23.47	2.230		
3,400.0	3,383.8	3,397.2	3,381.1	12.2	12.2	77.61	-165.3	-141.7	54.6	30.3	24.27	2.248		
3,500.0	3,482.3	3,497.2	3,479.5	12.6	12.6	78.26	-179.7	-151.4	56.8	31.7	25.08	2.264		
3,600.0	3,580.8	3,597.2	3,578.0	13.0	13.0	78.86	-194.1	-161.1	59.0	33.1	25.90	2.279		
3,700.0	3,679.2	3,697.1	3,676.4	13.4	13.4	79.42	-208.5	-170.9	61.3	34.5	26.72	2.292		
3,800.0	3,777.7	3,797.1	3,774.9	13.8	13.8	79.93	-222.8	-180.6	63.5	36.0	27.56	2.305		
3,900.0	3,876.2	3,897.1	3,873.3	14.2	14.2	80.42	-237.2	-190.3	65.8	37.4	28.39	2.316		
4,000.0	3,974.7	3,997.1	3,971.8	14.7	14.7	80.87	-251.6	-200.1	68.0	38.8	29.23	2.327		
4,100.0	4,073.2	4,097.0	4,070.2	15.1	15.1	81.29	-266.0	-209.8	70.3	40.2	30.07	2.337		
4,200.0	4,171.6	4,197.0	4,168.7	15.5	15.5	81.68	-280.4	-219.5	72.5	41.6	30.92	2.346		
4,300.0	4,270.1	4,297.0	4,267.2	15.9	15.9	82.05	-294.7	-229.2	74.8	43.0	31.77	2.354		
4,400.0	4,368.6	4,397.0	4,365.6	16.4	16.4	82.40	-309.1	-239.0	77.1	44.4	32.63	2.362		
4,500.0	4,467.1	4,496.9	4,464.1	16.8	16.8	82.73	-323.5	-248.7	79.3	45.9	33.49	2.369		
4,600.0	4,565.6	4,596.9	4,562.5	17.2	17.2	83.04	-337.9	-258.4	81.6	47.3	34.35	2.376		
4,700.0	4,664.0	4,696.9	4,661.0	17.6	17.7	83.34	-352.3	-268.2	83.9	48.7	35.21	2.382		
4,800.0	4,762.5	4,796.9	4,759.4	18.1	18.1	83.62	-366.6	-277.9	86.2	50.1	36.08	2.388		
4,818.8	4,781.0	4,815.6	4,777.9	18.2	18.2	83.67	-369.3	-279.7	86.6	50.4	36.24	2.389		
4,900.0	4,861.2	4,896.8	4,857.9	18.5	18.5	83.18	-381.0	-287.6	88.6	51.7	36.93	2.399		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Permian Resources

Anticollision Report

Company:	NEW MEXICO	Local Co-ordinate Reference:	Well EL CAMPEON FED COM 511H
Project:	(SP) LEA	TVD Reference:	KB @ 3200.0usft
Reference Site:	EL CAMPEON FED COM PROJECT	MD Reference:	KB @ 3200.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	EL CAMPEON FED COM 511H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Compass
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design:EL CAMPEON FED COM PROJECT - EL CAMPEON FED COM 401H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program:		0-MWD		Offset			Semi Major Axis		Offset Wellbore Centre		Rule Assigned:		Offset Well Error:	0.0 usft
Reference	Measured	Vertical	Offset	Reference	Offset	Highside			Distance				Warning	
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,000.0	4,960.4	4,996.7	4,956.2	18.9	19.0	80.66	-395.4	-297.3	91.5	53.8	37.71	2.426		
5,100.0	5,059.9	5,096.9	5,055.0	19.3	19.4	76.45	-409.5	-306.9	95.2	56.8	38.43	2.478		
5,200.0	5,159.7	5,197.9	5,155.0	19.7	19.8	72.20	-421.2	-314.8	99.2	60.1	39.08	2.539		
5,300.0	5,259.7	5,299.2	5,255.7	20.0	20.2	68.20	-430.1	-320.8	103.3	63.6	39.67	2.603		
5,318.8	5,278.5	5,318.3	5,274.7	20.1	20.3	-86.09	-431.4	-321.7	104.0	64.3	39.78	2.616		
5,400.0	5,359.7	5,400.9	5,357.2	20.3	20.6	-88.65	-436.0	-324.8	106.9	66.6	40.23	2.657		
5,500.0	5,459.7	5,503.0	5,459.2	20.6	20.9	-90.21	-438.9	-326.8	108.8	68.0	40.82	2.665		
5,600.0	5,559.7	5,604.0	5,560.2	21.0	21.3	-90.39	-439.2	-327.0	109.0	67.6	41.45	2.630		
5,700.0	5,659.7	5,704.0	5,660.2	21.3	21.6	-90.39	-439.2	-327.0	109.0	66.9	42.09	2.590		
5,800.0	5,759.7	5,804.0	5,760.2	21.6	21.9	-90.39	-439.2	-327.0	109.0	66.3	42.73	2.551		
5,900.0	5,859.7	5,904.0	5,860.2	21.9	22.2	-90.39	-439.2	-327.0	109.0	65.6	43.38	2.513		
6,000.0	5,959.7	6,004.0	5,960.2	22.2	22.5	-90.39	-439.2	-327.0	109.0	65.0	44.03	2.476		
6,100.0	6,059.7	6,104.0	6,060.2	22.6	22.8	-90.39	-439.2	-327.0	109.0	64.3	44.68	2.440		
6,200.0	6,159.7	6,204.0	6,160.2	22.9	23.2	-90.39	-439.2	-327.0	109.0	63.7	45.33	2.405		
6,300.0	6,259.7	6,304.0	6,260.2	23.2	23.5	-90.39	-439.2	-327.0	109.0	63.0	45.98	2.370		
6,400.0	6,359.7	6,404.0	6,360.2	23.5	23.8	-90.39	-439.2	-327.0	109.0	62.4	46.64	2.337		
6,500.0	6,459.7	6,504.0	6,460.2	23.9	24.1	-90.39	-439.2	-327.0	109.0	61.7	47.30	2.305		
6,600.0	6,559.7	6,604.0	6,560.2	24.2	24.5	-90.39	-439.2	-327.0	109.0	61.0	47.96	2.273		
6,700.0	6,659.7	6,704.0	6,660.2	24.5	24.8	-90.39	-439.2	-327.0	109.0	60.4	48.62	2.242		
6,800.0	6,759.7	6,804.0	6,760.2	24.8	25.1	-90.39	-439.2	-327.0	109.0	59.7	49.28	2.212		
6,900.0	6,859.7	6,904.0	6,860.2	25.2	25.4	-90.39	-439.2	-327.0	109.0	59.1	49.95	2.182		
7,000.0	6,959.7	7,004.0	6,960.2	25.5	25.8	-90.39	-439.2	-327.0	109.0	58.4	50.61	2.154		
7,100.0	7,059.7	7,104.0	7,060.2	25.8	26.1	-90.39	-439.2	-327.0	109.0	57.7	51.28	2.126		
7,200.0	7,159.7	7,204.0	7,160.2	26.2	26.4	-90.39	-439.2	-327.0	109.0	57.1	51.95	2.098		
7,300.0	7,259.7	7,304.0	7,260.2	26.5	26.8	-90.39	-439.2	-327.0	109.0	56.4	52.62	2.072		
7,400.0	7,359.7	7,404.0	7,360.2	26.8	27.1	-90.39	-439.2	-327.0	109.0	55.7	53.29	2.045		
7,500.0	7,459.7	7,504.0	7,460.2	27.2	27.4	-90.39	-439.2	-327.0	109.0	55.0	53.96	2.020		
7,600.0	7,559.7	7,604.0	7,560.2	27.5	27.7	-90.39	-439.2	-327.0	109.0	54.4	54.63	1.995		
7,700.0	7,659.7	7,704.0	7,660.2	27.8	28.1	-90.39	-439.2	-327.0	109.0	53.7	55.31	1.971		
7,800.0	7,759.7	7,804.0	7,760.2	28.2	28.4	-90.39	-439.2	-327.0	109.0	53.0	55.98	1.947		
7,900.0	7,859.7	7,904.0	7,860.2	28.5	28.7	-90.39	-439.2	-327.0	109.0	52.3	56.66	1.924		
8,000.0	7,959.7	8,004.0	7,960.2	28.9	29.1	-90.39	-439.2	-327.0	109.0	51.7	57.34	1.901		
8,100.0	8,059.7	8,104.0	8,060.2	29.2	29.4	-90.39	-439.2	-327.0	109.0	51.0	58.02	1.879		
8,200.0	8,159.7	8,204.0	8,160.2	29.5	29.8	-90.39	-439.2	-327.0	109.0	50.3	58.70	1.857		
8,300.0	8,259.7	8,304.0	8,260.2	29.9	30.1	-90.39	-439.2	-327.0	109.0	49.6	59.38	1.836		
8,400.0	8,359.7	8,404.0	8,360.2	30.2	30.4	-90.39	-439.2	-327.0	109.0	48.9	60.06	1.815		
8,500.0	8,459.7	8,504.0	8,460.2	30.6	30.8	-90.39	-439.2	-327.0	109.0	48.3	60.74	1.795		
8,600.0	8,559.7	8,604.0	8,560.2	30.9	31.1	-90.39	-439.2	-327.0	109.0	47.6	61.42	1.775		
8,700.0	8,659.7	8,704.0	8,660.2	31.2	31.4	-90.39	-439.2	-327.0	109.0	46.9	62.11	1.755		
8,800.0	8,759.7	8,804.0	8,760.2	31.6	31.8	-90.39	-439.2	-327.0	109.0	46.2	62.79	1.736		
8,900.0	8,859.7	8,904.0	8,860.2	31.9	32.1	-90.39	-439.2	-327.0	109.0	45.5	63.47	1.717		
9,000.0	8,959.7	9,004.0	8,960.2	32.3	32.5	-90.39	-439.2	-327.0	109.0	44.8	64.16	1.699		
9,100.0	9,059.7	9,104.0	9,060.2	32.6	32.8	-90.39	-439.2	-327.0	109.0	44.2	64.85	1.681		
9,200.0	9,159.7	9,204.0	9,160.2	32.9	33.1	-90.39	-439.2	-327.0	109.0	43.5	65.53	1.663		
9,300.0	9,259.7	9,304.0	9,260.2	33.3	33.5	-90.39	-439.2	-327.0	109.0	42.8	66.22	1.646		
9,400.0	9,359.7	9,404.0	9,360.2	33.6	33.8	-90.39	-439.2	-327.0	109.0	42.1	66.91	1.629		
9,500.0	9,459.7	9,504.0	9,460.2	34.0	34.2	-90.39	-439.2	-327.0	109.0	41.4	67.60	1.612		
9,600.0	9,559.7	9,604.0	9,560.2	34.3	34.5	-90.39	-439.2	-327.0	109.0	40.7	68.29	1.596		
9,700.0	9,659.7	9,704.0	9,660.2	34.7	34.8	-90.39	-439.2	-327.0	109.0	40.0	68.98	1.580		
9,800.0	9,759.7	9,804.0	9,760.2	35.0	35.2	-90.39	-439.2	-327.0	109.0	39.3	69.67	1.565		
9,900.0	9,859.7	9,904.0	9,860.2	35.3	35.5	-90.39	-439.2	-327.0	109.0	38.6	70.36	1.549		
10,000.0	9,959.7	10,004.0	9,960.2	35.7	35.9	-90.39	-439.2	-327.0	109.0	38.0	71.05	1.534		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

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COMPASS 5000.17 Build 03

Permian Resources

Anticollision Report

Company:	NEW MEXICO	Local Co-ordinate Reference:	Well EL CAMPEON FED COM 511H
Project:	(SP) LEA	TVD Reference:	KB @ 3200.0usft
Reference Site:	EL CAMPEON FED COM PROJECT	MD Reference:	KB @ 3200.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	EL CAMPEON FED COM 511H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Compass
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: EL CAMPEON FED COM PROJECT - EL CAMPEON FED COM 401H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Rule Assigned: Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
10,100.0	10,059.7	10,104.0	10,060.2	36.0	36.2	-90.39	-439.2	-327.0	109.0	37.3	71.74	1.519		
10,200.0	10,159.7	10,204.0	10,160.2	36.4	36.6	-90.39	-439.2	-327.0	109.0	36.6	72.44	1.505		
10,300.0	10,259.7	10,304.0	10,260.2	36.7	36.9	-90.39	-439.2	-327.0	109.0	35.9	73.13	1.491 Level 3		
10,400.0	10,359.7	10,404.0	10,360.2	37.1	37.3	-90.39	-439.2	-327.0	109.0	35.2	73.82	1.477 Level 3		
10,500.0	10,459.7	10,504.0	10,460.2	37.4	37.6	-90.39	-439.2	-327.0	109.0	34.5	74.52	1.463 Level 3		
10,600.0	10,559.7	10,604.0	10,560.2	37.8	37.9	-90.39	-439.2	-327.0	109.0	33.8	75.21	1.449 Level 3		
10,700.0	10,659.7	10,704.0	10,660.2	38.1	38.3	-90.39	-439.2	-327.0	109.0	33.1	75.91	1.436 Level 3		
10,800.0	10,759.7	10,804.0	10,760.2	38.5	38.6	-90.39	-439.2	-327.0	109.0	32.4	76.60	1.423 Level 3		
10,900.0	10,859.7	10,904.0	10,860.2	38.8	39.0	-90.39	-439.2	-327.0	109.0	31.7	77.30	1.410 Level 3		
11,000.0	10,959.7	11,004.0	10,960.2	39.2	39.3	-90.39	-439.2	-327.0	109.0	31.0	77.99	1.398 Level 3		
11,100.0	11,059.7	11,104.0	11,060.2	39.5	39.7	-90.39	-439.2	-327.0	109.0	30.3	78.69	1.385 Level 3		
11,200.0	11,159.7	11,204.0	11,160.2	39.8	40.0	-90.39	-439.2	-327.0	109.0	29.6	79.38	1.373 Level 3		
11,300.0	11,259.7	11,304.0	11,260.2	40.2	40.4	-90.39	-439.2	-327.0	109.0	28.9	80.08	1.361 Level 3		
11,400.0	11,359.7	11,404.0	11,360.2	40.5	40.7	-90.39	-439.2	-327.0	109.0	28.2	80.78	1.349 Level 3		
11,500.0	11,459.7	11,504.0	11,460.2	40.9	41.1	-90.39	-439.2	-327.0	109.0	27.5	81.48	1.338 Level 3		
11,600.0	11,559.7	11,604.0	11,560.2	41.2	41.4	-90.39	-439.2	-327.0	109.0	26.8	82.18	1.326 Level 3		
11,700.0	11,659.7	11,704.0	11,660.2	41.6	41.7	-90.39	-439.2	-327.0	109.0	26.1	82.87	1.315 Level 3		
11,800.0	11,759.7	11,804.0	11,760.2	41.9	42.1	-90.39	-439.2	-327.0	109.0	25.4	83.57	1.304 Level 3		
11,900.0	11,859.7	11,904.0	11,860.2	42.3	42.4	-90.39	-439.2	-327.0	109.0	24.7	84.27	1.293 Level 3		
12,000.0	11,959.7	12,004.0	11,960.2	42.6	42.8	-90.39	-439.2	-327.0	109.0	24.0	84.97	1.283 Level 3		
12,100.0	12,059.7	12,104.0	12,060.2	43.0	43.1	-90.39	-439.2	-327.0	109.0	23.3	85.67	1.272 Level 3		
12,200.0	12,159.7	12,204.0	12,160.2	43.3	43.5	-90.39	-439.2	-327.0	109.0	22.6	86.37	1.262 Level 3		
12,227.0	12,186.7	12,231.0	12,187.2	43.4	43.6	-90.56	-439.6	-327.0	109.0	22.4	86.55	1.259 Level 3		
12,300.0	12,259.7	12,303.0	12,258.7	43.7	43.8	-94.80	-447.6	-326.9	109.3	22.3	86.98	1.257 Level 3, SF		
12,400.0	12,359.7	12,394.9	12,346.7	44.0	44.2	-107.78	-473.3	-326.7	114.9	27.7	87.20	1.318 Level 3		
12,500.0	12,459.7	12,475.0	12,418.3	44.4	44.5	-123.12	-509.2	-326.3	136.0	50.2	85.78	1.585		
12,591.8	12,551.5	12,536.0	12,468.1	44.7	44.8	-134.38	-544.2	-326.0	172.8	90.1	82.66	2.090		
12,600.0	12,559.7	12,541.0	12,472.0	44.7	44.8	44.96	-547.3	-325.9	176.8	94.4	82.35	2.147		
12,625.0	12,584.7	12,556.1	12,483.6	44.8	44.9	41.52	-557.1	-325.8	189.1	107.7	81.39	2.323		
12,650.0	12,609.6	12,571.1	12,494.7	44.9	44.9	38.48	-567.1	-325.7	201.4	121.0	80.43	2.504		
12,675.0	12,634.3	12,586.0	12,505.4	45.0	45.0	35.81	-577.4	-325.6	213.7	134.2	79.48	2.689		
12,700.0	12,658.8	12,600.0	12,515.3	45.1	45.1	33.52	-587.4	-325.5	225.9	147.4	78.45	2.879		
12,725.0	12,683.0	12,615.4	12,525.7	45.2	45.1	31.37	-598.8	-325.4	237.9	160.3	77.59	3.066		
12,750.0	12,706.8	12,630.1	12,535.3	45.3	45.2	29.53	-609.8	-325.3	249.6	172.9	76.66	3.256		
12,775.0	12,730.2	12,644.6	12,544.5	45.4	45.3	27.90	-621.1	-325.2	261.0	185.3	75.74	3.447		
12,800.0	12,753.2	12,659.1	12,553.3	45.5	45.3	26.45	-632.6	-325.1	272.1	197.3	74.82	3.637		
12,825.0	12,775.5	12,675.0	12,562.5	45.6	45.4	25.09	-645.6	-325.0	282.9	208.8	74.08	3.819		
12,850.0	12,797.3	12,687.8	12,569.6	45.7	45.5	24.00	-656.2	-324.9	293.2	220.2	73.03	4.015		
12,875.0	12,818.4	12,700.0	12,576.2	45.8	45.5	23.04	-666.5	-324.8	303.2	231.2	71.96	4.213		
12,900.0	12,838.7	12,716.3	12,584.5	45.9	45.6	22.06	-680.6	-324.6	312.7	241.4	71.31	4.386		
12,925.0	12,858.3	12,730.5	12,591.3	46.0	45.7	21.23	-693.0	-324.5	321.8	251.3	70.47	4.566		
12,950.0	12,877.0	12,744.7	12,597.8	46.1	45.7	20.50	-705.6	-324.4	330.4	260.7	69.66	4.743		
12,975.0	12,894.9	12,758.8	12,603.8	46.2	45.8	19.84	-718.4	-324.3	338.5	269.6	68.88	4.915		
13,000.0	12,911.8	12,775.0	12,610.3	46.3	45.9	19.21	-733.2	-324.1	346.2	277.9	68.28	5.070		
13,025.0	12,927.7	12,787.0	12,614.8	46.5	45.9	18.72	-744.3	-324.0	353.3	285.9	67.40	5.242		
13,050.0	12,942.5	12,800.0	12,619.3	46.6	46.0	18.27	-756.5	-323.9	360.0	293.3	66.65	5.401		
13,075.0	12,956.3	12,815.0	12,624.1	46.7	46.1	17.84	-770.7	-323.8	366.1	300.0	66.06	5.541		
13,100.0	12,969.0	12,825.0	12,627.1	46.8	46.1	17.51	-780.3	-323.7	371.7	306.5	65.23	5.698		
13,125.0	12,980.6	12,842.9	12,631.9	46.9	46.2	17.15	-797.6	-323.5	376.7	311.8	64.90	5.805		
13,150.0	12,991.0	12,856.9	12,635.1	47.0	46.3	16.87	-811.1	-323.4	381.3	316.9	64.38	5.922		
13,175.0	13,000.1	12,875.0	12,638.8	47.2	46.4	16.60	-828.9	-323.2	385.3	321.2	64.10	6.010		
13,200.0	13,008.1	12,884.7	12,640.5	47.3	46.4	16.42	-838.4	-323.1	388.7	325.2	63.52	6.120		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Permian Resources

Anticollision Report

Company:	NEW MEXICO	Local Co-ordinate Reference:	Well EL CAMPEON FED COM 511H
Project:	(SP) LEA	TVD Reference:	KB @ 3200.0usft
Reference Site:	EL CAMPEON FED COM PROJECT	MD Reference:	KB @ 3200.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	EL CAMPEON FED COM 511H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Compass
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: EL CAMPEON FED COM PROJECT - EL CAMPEON FED COM 401H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program:	0-MWD												Offset Well Error:	0.0 usft
Reference	Offset	Semi Major Axis	Highside	Offset Wellbore Centre		Rule Assigned:		Distance	Between	Minimum	Separation	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Ellipses (usft)	Separation (usft)	Factor		
13,225.0	13,014.8	12,900.0	12,642.8	47.4	46.5	16.25	-853.5	-322.9	391.6	328.4	63.21	6.195		
13,250.0	13,020.2	12,912.5	12,644.3	47.5	46.6	16.12	-866.0	-322.8	393.9	331.0	62.88	6.265		
13,275.0	13,024.3	12,925.0	12,645.4	47.7	46.6	16.02	-878.4	-322.7	395.7	333.1	62.63	6.319		
13,300.0	13,027.1	12,940.3	12,646.4	47.8	46.7	15.95	-893.7	-322.5	396.9	334.4	62.50	6.351		
13,325.0	13,028.7	12,954.2	12,646.9	47.9	46.8	15.91	-907.5	-322.4	397.6	335.2	62.40	6.371		
13,341.8	13,029.0	12,963.7	12,647.0	48.0	46.8	15.91	-917.0	-322.3	397.7	335.3	62.38	6.376		
13,400.0	13,029.0	13,021.9	12,647.0	48.3	47.1	15.91	-975.2	-321.7	397.7	335.2	62.57	6.356		
13,500.0	13,029.0	13,121.9	12,647.0	48.8	47.7	15.91	-1,075.2	-320.8	397.7	334.8	62.93	6.320		
13,600.0	13,029.0	13,221.9	12,647.0	49.4	48.3	15.91	-1,175.2	-319.8	397.7	334.4	63.34	6.280		
13,700.0	13,029.0	13,321.9	12,647.0	50.1	48.9	15.91	-1,275.2	-318.8	397.7	333.9	63.79	6.235		
13,800.0	13,029.0	13,421.9	12,647.0	50.8	49.6	15.91	-1,375.2	-317.8	397.7	333.4	64.29	6.187		
13,900.0	13,029.0	13,521.9	12,647.0	51.5	50.4	15.91	-1,475.2	-316.8	397.7	332.9	64.83	6.135		
14,000.0	13,029.0	13,621.9	12,647.0	52.3	51.2	15.91	-1,575.2	-315.9	397.7	332.3	65.41	6.080		
14,100.0	13,029.0	13,721.9	12,647.0	53.1	52.0	15.91	-1,675.2	-314.9	397.7	331.7	66.04	6.023		
14,200.0	13,029.0	13,821.9	12,647.0	53.9	52.9	15.91	-1,775.2	-313.9	397.7	331.0	66.70	5.963		
14,300.0	13,029.0	13,921.9	12,647.0	54.8	53.8	15.91	-1,875.2	-312.9	397.7	330.3	67.41	5.900		
14,400.0	13,029.0	14,021.9	12,647.0	55.7	54.7	15.91	-1,975.2	-312.0	397.7	329.6	68.15	5.836		
14,500.0	13,029.0	14,121.9	12,647.0	56.7	55.7	15.91	-2,075.2	-311.0	397.7	328.8	68.93	5.770		
14,600.0	13,029.0	14,221.9	12,647.0	57.7	56.7	15.91	-2,175.2	-310.0	397.7	328.0	69.75	5.702		
14,700.0	13,029.0	14,321.9	12,647.0	58.7	57.7	15.91	-2,275.2	-309.0	397.7	327.1	70.60	5.634		
14,800.0	13,029.0	14,421.9	12,647.0	59.7	58.8	15.91	-2,375.1	-308.0	397.7	326.2	71.48	5.564		
14,900.0	13,029.0	14,521.9	12,647.0	60.8	59.9	15.91	-2,475.1	-307.1	397.7	325.3	72.40	5.494		
15,000.0	13,029.0	14,621.9	12,647.0	61.9	61.0	15.91	-2,575.1	-306.1	397.7	324.4	73.34	5.423		
15,100.0	13,029.0	14,721.9	12,647.0	63.0	62.1	15.91	-2,675.1	-305.1	397.7	323.4	74.32	5.352		
15,200.0	13,029.0	14,821.9	12,647.0	64.2	63.3	15.91	-2,775.1	-304.1	397.7	322.4	75.32	5.280		
15,300.0	13,029.0	14,921.9	12,647.0	65.3	64.5	15.91	-2,875.1	-303.1	397.7	321.4	76.35	5.209		
15,400.0	13,029.0	15,021.9	12,647.0	66.5	65.7	15.91	-2,975.1	-302.2	397.7	320.3	77.41	5.138		
15,500.0	13,029.0	15,121.9	12,647.0	67.7	66.9	15.91	-3,075.1	-301.2	397.7	319.2	78.49	5.067		
15,600.0	13,029.0	15,221.9	12,647.0	69.0	68.1	15.91	-3,175.1	-300.2	397.7	318.1	79.60	4.997		
15,700.0	13,029.0	15,321.9	12,647.0	70.2	69.4	15.91	-3,275.1	-299.2	397.7	317.0	80.73	4.927		
15,800.0	13,029.0	15,421.9	12,647.0	71.4	70.6	15.91	-3,375.1	-298.2	397.7	315.8	81.88	4.857		
15,900.0	13,029.0	15,521.9	12,647.0	72.7	71.9	15.91	-3,475.1	-297.3	397.7	314.7	83.05	4.789		
16,000.0	13,029.0	15,621.9	12,647.0	74.0	73.2	15.91	-3,575.1	-296.3	397.7	313.5	84.25	4.721		
16,100.0	13,029.0	15,721.9	12,647.0	75.3	74.5	15.91	-3,675.1	-295.3	397.7	312.3	85.46	4.654		
16,200.0	13,029.0	15,821.9	12,647.0	76.6	75.9	15.91	-3,775.1	-294.3	397.7	311.0	86.69	4.588		
16,300.0	13,029.0	15,921.9	12,647.0	78.0	77.2	15.91	-3,875.1	-293.3	397.7	309.8	87.94	4.523		
16,400.0	13,029.0	16,021.9	12,647.0	79.3	78.5	15.91	-3,975.1	-292.4	397.7	308.5	89.21	4.458		
16,500.0	13,029.0	16,121.9	12,647.0	80.6	79.9	15.91	-4,075.1	-291.4	397.7	307.2	90.49	4.395		
16,600.0	13,029.0	16,221.9	12,647.0	82.0	81.3	15.91	-4,175.1	-290.4	397.7	305.9	91.79	4.333		
16,700.0	13,029.0	16,321.9	12,647.0	83.4	82.7	15.91	-4,275.1	-289.4	397.7	304.6	93.10	4.272		
16,800.0	13,029.0	16,421.9	12,647.0	84.8	84.1	15.91	-4,375.0	-288.4	397.7	303.3	94.43	4.212		
16,900.0	13,029.0	16,521.9	12,647.0	86.1	85.5	15.91	-4,475.0	-287.5	397.7	302.0	95.77	4.153		
17,000.0	13,029.0	16,621.9	12,647.0	87.5	86.9	15.91	-4,575.0	-286.5	397.7	300.6	97.13	4.095		
17,100.0	13,029.0	16,721.9	12,647.0	89.0	88.3	15.91	-4,675.0	-285.5	397.7	299.2	98.50	4.038		
17,200.0	13,029.0	16,821.9	12,647.0	90.4	89.7	15.91	-4,775.0	-284.5	397.7	297.9	99.88	3.982		
17,300.0	13,029.0	16,921.9	12,647.0	91.8	91.1	15.91	-4,875.0	-283.5	397.7	296.5	101.27	3.927		
17,400.0	13,029.0	17,021.9	12,647.0	93.2	92.6	15.91	-4,975.0	-282.6	397.7	295.1	102.67	3.874		
17,500.0	13,029.0	17,121.9	12,647.0	94.7	94.0	15.91	-5,075.0	-281.6	397.7	293.6	104.09	3.821		
17,600.0	13,029.0	17,221.9	12,647.0	96.1	95.5	15.91	-5,175.0	-280.6	397.7	292.2	105.51	3.770		
17,700.0	13,029.0	17,321.9	12,647.0	97.6	96.9	15.91	-5,275.0	-279.6	397.7	290.8	106.95	3.719		
17,800.0	13,029.0	17,421.9	12,647.0	99.0	98.4	15.91	-5,375.0	-278.6	397.7	289.3	108.39	3.669		
17,900.0	13,029.0	17,521.9	12,647.0	100.5	99.9	15.91	-5,475.0	-277.7	397.7	287.9	109.84	3.621		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Permian Resources

Anticollision Report

Company:	NEW MEXICO	Local Co-ordinate Reference:	Well EL CAMPEON FED COM 511H
Project:	(SP) LEA	TVD Reference:	KB @ 3200.0usft
Reference Site:	EL CAMPEON FED COM PROJECT	MD Reference:	KB @ 3200.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	EL CAMPEON FED COM 511H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Compass
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design:EL CAMPEON FED COM PROJECT - EL CAMPEON FED COM 401H - OWB - PWP0													Offset Site Error:	0.0 usft	
Survey Program:		0-MWD					Rule Assigned:							Offset Well Error:	0.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance						Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
18,000.0	13,029.0	17,621.9	12,647.0	102.0	101.4	15.91	-5,575.0	-276.7	397.7	286.4	111.30	3.573			
18,100.0	13,029.0	17,721.9	12,647.0	103.4	102.8	15.91	-5,675.0	-275.7	397.7	285.0	112.78	3.527			
18,200.0	13,029.0	17,821.9	12,647.0	104.9	104.3	15.91	-5,775.0	-274.7	397.7	283.5	114.25	3.481			
18,300.0	13,029.0	17,921.9	12,647.0	106.4	105.8	15.91	-5,875.0	-273.7	397.7	282.0	115.74	3.436			
18,326.7	13,029.0	17,948.5	12,647.0	106.8	106.2	15.91	-5,901.7	-273.5	397.7	281.6	116.14	3.425			
18,327.4	13,029.0	17,949.3	12,647.0	106.8	106.2	15.91	-5,902.4	-273.5	397.7	281.6	116.15	3.424			
18,400.0	13,029.0	18,021.9	12,647.0	107.9	107.3	15.91	-5,975.0	-272.7	397.7	280.5	117.23	3.393			
18,500.0	13,029.0	18,121.9	12,647.0	109.4	108.8	15.91	-6,075.0	-271.7	397.7	279.0	118.73	3.350			
18,600.0	13,029.0	18,221.9	12,647.0	110.9	110.3	15.91	-6,175.0	-270.7	397.7	277.5	120.24	3.308			
18,700.0	13,029.0	18,321.9	12,647.0	112.4	111.8	15.91	-6,275.0	-269.7	397.7	276.0	121.76	3.267			
18,800.0	13,029.0	18,421.9	12,647.0	113.9	113.3	15.91	-6,375.0	-268.7	397.7	274.5	123.28	3.226			
18,900.0	13,029.0	18,521.9	12,647.0	115.4	114.9	15.91	-6,475.0	-267.7	397.7	272.9	124.81	3.187			
19,000.0	13,029.0	18,621.9	12,647.0	116.9	116.4	15.91	-6,575.0	-266.7	397.7	271.4	126.34	3.148			
19,100.0	13,029.0	18,721.9	12,647.0	118.4	117.9	15.91	-6,675.0	-265.7	397.7	269.8	127.88	3.110			
19,200.0	13,029.0	18,821.9	12,647.0	119.9	119.4	15.91	-6,775.0	-264.7	397.7	268.3	129.42	3.073			
19,300.0	13,029.0	18,921.9	12,647.0	121.5	121.0	15.91	-6,875.0	-263.7	397.7	266.8	130.97	3.037			
19,400.0	13,029.0	19,021.9	12,647.0	123.0	122.5	15.91	-6,974.9	-262.7	397.7	265.2	132.53	3.001			
19,500.0	13,029.0	19,121.9	12,647.0	124.5	124.0	15.91	-7,074.9	-261.7	397.7	263.6	134.09	2.966			
19,600.0	13,029.0	19,221.9	12,647.0	126.1	125.6	15.91	-7,174.9	-260.7	397.7	262.1	135.65	2.932			
19,700.0	13,029.0	19,321.9	12,647.0	127.6	127.1	15.91	-7,274.9	-259.7	397.7	260.5	137.22	2.898			
19,800.0	13,029.0	19,421.9	12,647.0	129.1	128.7	15.91	-7,374.9	-258.7	397.7	258.9	138.80	2.866			
19,900.0	13,029.0	19,521.9	12,647.0	130.7	130.2	15.91	-7,474.9	-257.7	397.7	257.4	140.38	2.833			
20,000.0	13,029.0	19,621.9	12,647.0	132.2	131.8	15.91	-7,574.9	-256.7	397.7	255.8	141.96	2.802			
20,100.0	13,029.0	19,721.9	12,647.0	133.8	133.3	15.91	-7,674.9	-255.7	397.7	254.2	143.55	2.771			
20,200.0	13,029.0	19,821.9	12,647.0	135.3	134.9	15.91	-7,774.9	-254.7	397.7	252.6	145.14	2.740			
20,300.0	13,029.0	19,921.9	12,647.0	136.9	136.4	15.91	-7,874.9	-253.7	397.7	251.0	146.73	2.711			
20,400.0	13,029.0	20,021.9	12,647.0	138.4	138.0	15.91	-7,974.9	-252.7	397.7	249.4	148.33	2.681			
20,500.0	13,029.0	20,121.9	12,647.0	140.0	139.5	15.91	-8,074.9	-251.6	397.7	247.8	149.93	2.653			
20,600.0	13,029.0	20,221.9	12,647.0	141.5	141.1	15.91	-8,174.9	-250.6	397.7	246.2	151.54	2.625			
20,700.0	13,029.0	20,321.9	12,647.0	143.1	142.7	15.91	-8,274.9	-249.6	397.7	244.6	153.15	2.597			
20,800.0	13,029.0	20,421.9	12,647.0	144.7	144.2	15.91	-8,374.9	-248.6	397.7	243.0	154.76	2.570			
20,900.0	13,029.0	20,521.9	12,647.0	146.2	145.8	15.91	-8,474.9	-247.6	397.7	241.4	156.37	2.543			
21,000.0	13,029.0	20,621.9	12,647.0	147.8	147.4	15.91	-8,574.9	-246.6	397.7	239.7	157.99	2.517			
21,100.0	13,029.0	20,721.9	12,647.0	149.4	148.9	15.91	-8,674.9	-245.6	397.7	238.1	159.61	2.492			
21,200.0	13,029.0	20,821.9	12,647.0	150.9	150.5	15.91	-8,774.9	-244.6	397.7	236.5	161.24	2.467			
21,239.3	13,029.0	20,861.2	12,647.0	151.6	151.1	15.91	-8,814.1	-244.2	397.7	235.9	161.88	2.457			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

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COMPASS 5000.17 Build 03

Permian Resources

Anticollision Report

Company:	NEW MEXICO	Local Co-ordinate Reference:	Well EL CAMPEON FED COM 511H
Project:	(SP) LEA	TVD Reference:	KB @ 3200.0usft
Reference Site:	EL CAMPEON FED COM PROJECT	MD Reference:	KB @ 3200.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	EL CAMPEON FED COM 511H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Compass
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: EL CAMPEON FED COM PROJECT - EL CAMPEON FED COM 431H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning	
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
0.0	0.0	0.0	0.0	0.0	0.0	89.52	0.2	30.0	30.0					
100.0	100.0	100.0	100.0	0.3	0.3	89.52	0.2	30.0	30.0	29.5	0.50	59.780		
200.0	200.0	200.0	200.0	0.6	0.6	89.52	0.2	30.0	30.0	28.8	1.22	24.615		
300.0	300.0	300.0	300.0	1.0	1.0	89.52	0.2	30.0	30.0	28.1	1.94	15.498		
400.0	400.0	400.0	400.0	1.3	1.3	89.52	0.2	30.0	30.0	27.3	2.65	11.310		
500.0	500.0	500.0	500.0	1.7	1.7	89.52	0.2	30.0	30.0	26.6	3.37	8.903		
524.1	524.1	524.1	524.1	1.8	1.8	89.52	0.2	30.0	30.0	26.5	3.54	8.469		
600.0	600.0	600.0	600.0	2.0	2.0	89.52	0.2	30.0	30.0	25.9	4.09	7.341		
633.3	633.3	633.3	633.3	2.2	2.2	89.52	0.2	30.0	30.0	25.7	4.33	6.936		
700.0	700.0	700.0	700.0	2.4	2.4	89.52	0.2	30.0	30.0	25.2	4.80	6.246		
800.0	800.0	800.0	800.0	2.8	2.8	89.52	0.2	30.0	30.0	24.5	5.52	5.435		
900.0	900.0	900.0	900.0	3.1	3.1	89.52	0.2	30.0	30.0	23.8	6.24	4.810		
1,000.0	1,000.0	1,000.0	1,000.0	3.5	3.5	89.52	0.2	30.0	30.0	23.0	6.95	4.314		
1,100.0	1,100.0	1,100.0	1,100.0	3.8	3.8	89.52	0.2	30.0	30.0	22.3	7.67	3.911		
1,200.0	1,200.0	1,200.0	1,200.0	4.2	4.2	89.52	0.2	30.0	30.0	21.6	8.39	3.577		
1,300.0	1,300.0	1,300.0	1,300.0	4.6	4.6	89.52	0.2	30.0	30.0	20.9	9.11	3.295		
1,400.0	1,400.0	1,400.0	1,400.0	4.9	4.9	89.52	0.2	30.0	30.0	20.2	9.82	3.054		
1,500.0	1,500.0	1,500.0	1,500.0	5.3	5.3	89.52	0.2	30.0	30.0	19.5	10.54	2.847		
1,600.0	1,600.0	1,600.0	1,600.0	5.6	5.6	89.52	0.2	30.0	30.0	18.7	11.26	2.665		
1,700.0	1,700.0	1,700.0	1,700.0	6.0	6.0	89.52	0.2	30.0	30.0	18.0	11.97	2.506		
1,800.0	1,800.0	1,800.0	1,800.0	6.3	6.3	89.52	0.2	30.0	30.0	17.3	12.69	2.364		
1,900.0	1,900.0	1,900.0	1,900.0	6.7	6.7	89.52	0.2	30.0	30.0	16.6	13.41	2.238		
2,000.0	2,000.0	2,000.0	2,000.0	7.1	7.1	89.52	0.2	30.0	30.0	15.9	14.12	2.124 CC		
2,100.0	2,100.0	2,100.1	2,100.0	7.4	7.4	-116.55	-1.5	29.9	30.7	15.9	14.80	2.072 ES		
2,200.0	2,199.8	2,200.1	2,199.9	7.7	7.7	-115.56	-6.7	29.6	32.7	17.2	15.45	2.115		
2,300.0	2,299.5	2,300.1	2,299.5	8.1	8.1	-114.15	-15.4	29.0	36.0	19.9	16.11	2.237		
2,400.0	2,398.7	2,400.0	2,398.7	8.4	8.4	-112.56	-27.6	28.3	40.8	24.0	16.78	2.430		
2,500.0	2,497.5	2,499.8	2,497.2	8.7	8.7	-110.98	-43.1	27.3	46.9	29.4	17.46	2.685		
2,600.0	2,595.9	2,599.5	2,595.5	9.1	9.1	-109.74	-60.4	26.3	53.7	35.5	18.16	2.956		
2,700.0	2,694.4	2,699.3	2,693.7	9.5	9.4	-108.78	-77.7	25.2	60.5	41.6	18.88	3.205		
2,800.0	2,792.9	2,799.1	2,792.0	9.8	9.8	-108.02	-95.0	24.1	67.4	47.7	19.62	3.433		
2,900.0	2,891.4	2,898.8	2,890.2	10.2	10.2	-107.39	-112.3	23.1	74.2	53.8	20.37	3.643		
3,000.0	2,989.9	2,998.6	2,988.5	10.6	10.6	-106.87	-129.6	22.0	81.1	59.9	21.13	3.836		
3,100.0	3,088.3	3,098.3	3,086.7	11.0	11.0	-106.44	-146.9	20.9	87.9	66.0	21.90	4.014		
3,200.0	3,186.8	3,198.1	3,185.0	11.4	11.3	-106.06	-164.2	19.8	94.8	72.1	22.68	4.179		
3,300.0	3,285.3	3,297.9	3,283.2	11.8	11.7	-105.74	-181.5	18.8	101.6	78.2	23.47	4.331		
3,400.0	3,383.8	3,397.6	3,381.5	12.2	12.1	-105.46	-198.8	17.7	108.5	84.2	24.27	4.471		
3,500.0	3,482.3	3,497.4	3,479.7	12.6	12.5	-105.21	-216.1	16.6	115.4	90.3	25.08	4.602		
3,600.0	3,580.8	3,597.2	3,578.0	13.0	13.0	-104.99	-233.3	15.6	122.3	96.4	25.89	4.723		
3,700.0	3,679.2	3,696.9	3,676.2	13.4	13.4	-104.79	-250.6	14.5	129.1	102.4	26.71	4.836		
3,800.0	3,777.7	3,796.7	3,774.4	13.8	13.8	-104.61	-267.9	13.4	136.0	108.5	27.53	4.941		
3,900.0	3,876.2	3,896.4	3,872.7	14.2	14.2	-104.45	-285.2	12.4	142.9	114.5	28.36	5.039		
4,000.0	3,974.7	3,996.2	3,970.9	14.7	14.6	-104.30	-302.5	11.3	149.8	120.6	29.19	5.131		
4,100.0	4,073.2	4,096.0	4,069.2	15.1	15.0	-104.17	-319.8	10.2	156.7	126.6	30.03	5.217		
4,200.0	4,171.6	4,195.7	4,167.4	15.5	15.5	-104.05	-337.1	9.2	163.5	132.7	30.87	5.298		
4,300.0	4,270.1	4,295.5	4,265.7	15.9	15.9	-103.94	-354.4	8.1	170.4	138.7	31.71	5.374		
4,400.0	4,368.6	4,395.3	4,363.9	16.4	16.3	-103.83	-371.7	7.0	177.3	144.8	32.56	5.446		
4,500.0	4,467.1	4,495.0	4,462.2	16.8	16.7	-103.74	-389.0	6.0	184.2	150.8	33.41	5.513		
4,600.0	4,565.6	4,595.5	4,561.3	17.2	17.2	-103.93	-405.5	5.0	190.9	156.7	34.26	5.573		
4,700.0	4,664.0	4,696.2	4,661.1	17.6	17.6	-105.08	-418.6	4.1	197.2	162.1	35.10	5.619		
4,800.0	4,762.5	4,796.6	4,761.0	18.1	17.9	-107.15	-428.3	3.5	203.2	167.3	35.90	5.660		
4,818.8	4,781.0	4,815.4	4,779.8	18.2	18.0	-107.63	-429.7	3.5	204.3	168.3	36.05	5.669		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Permian Resources

Anticollision Report

Company:	NEW MEXICO	Local Co-ordinate Reference:	Well EL CAMPEON FED COM 511H
Project:	(SP) LEA	TVD Reference:	KB @ 3200.0usft
Reference Site:	EL CAMPEON FED COM PROJECT	MD Reference:	KB @ 3200.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	EL CAMPEON FED COM 511H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Compass
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: EL CAMPEON FED COM PROJECT - EL CAMPEON FED COM 431H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Rule Assigned: Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
4,900.0	4,861.2	4,896.5	4,860.7	18.5	18.3	-109.83	-434.4	3.2	208.9	172.2	36.66	5.698		
5,000.0	4,960.4	4,996.1	4,960.3	18.9	18.7	-112.44	-437.0	3.0	213.6	176.2	37.37	5.717		
5,100.0	5,059.9	5,095.7	5,059.9	19.3	19.0	-114.76	-437.1	3.0	217.4	179.3	38.02	5.717		
5,200.0	5,159.7	5,195.5	5,159.7	19.7	19.3	-116.19	-437.1	3.0	219.9	181.2	38.67	5.686		
5,300.0	5,259.7	5,295.5	5,259.7	20.0	19.6	-116.77	-437.1	3.0	221.0	181.7	39.32	5.619		
5,318.8	5,278.5	5,314.3	5,278.5	20.1	19.7	89.65	-437.1	3.0	221.0	181.6	39.44	5.603		
5,400.0	5,359.7	5,395.5	5,359.7	20.3	19.9	89.65	-437.1	3.0	221.0	181.0	39.96	5.530		
5,500.0	5,459.7	5,495.5	5,459.7	20.6	20.3	89.65	-437.1	3.0	221.0	180.4	40.61	5.443		
5,600.0	5,559.7	5,595.5	5,559.7	21.0	20.6	89.65	-437.1	3.0	221.0	179.8	41.25	5.358		
5,700.0	5,659.7	5,695.5	5,659.7	21.3	20.9	89.65	-437.1	3.0	221.0	179.1	41.90	5.275		
5,800.0	5,759.7	5,795.5	5,759.7	21.6	21.2	89.65	-437.1	3.0	221.0	178.5	42.54	5.195		
5,900.0	5,859.7	5,895.5	5,859.7	21.9	21.6	89.65	-437.1	3.0	221.0	177.8	43.20	5.116		
6,000.0	5,959.7	5,995.5	5,959.7	22.2	21.9	89.65	-437.1	3.0	221.0	177.2	43.85	5.040		
6,100.0	6,059.7	6,095.5	6,059.7	22.6	22.2	89.65	-437.1	3.0	221.0	176.5	44.50	4.966		
6,200.0	6,159.7	6,195.5	6,159.7	22.9	22.5	89.65	-437.1	3.0	221.0	175.8	45.16	4.894		
6,300.0	6,259.7	6,295.5	6,259.7	23.2	22.9	89.65	-437.1	3.0	221.0	175.2	45.82	4.823		
6,400.0	6,359.7	6,395.5	6,359.7	23.5	23.2	89.65	-437.1	3.0	221.0	174.5	46.48	4.755		
6,500.0	6,459.7	6,495.5	6,459.7	23.9	23.5	89.65	-437.1	3.0	221.0	173.9	47.14	4.688		
6,600.0	6,559.7	6,595.5	6,559.7	24.2	23.9	89.65	-437.1	3.0	221.0	173.2	47.80	4.623		
6,700.0	6,659.7	6,695.5	6,659.7	24.5	24.2	89.65	-437.1	3.0	221.0	172.5	48.47	4.560		
6,800.0	6,759.7	6,795.5	6,759.7	24.8	24.5	89.65	-437.1	3.0	221.0	171.9	49.14	4.498		
6,900.0	6,859.7	6,895.5	6,859.7	25.2	24.9	89.65	-437.1	3.0	221.0	171.2	49.80	4.437		
7,000.0	6,959.7	6,995.5	6,959.7	25.5	25.2	89.65	-437.1	3.0	221.0	170.5	50.47	4.379		
7,100.0	7,059.7	7,095.5	7,059.7	25.8	25.5	89.65	-437.1	3.0	221.0	169.9	51.14	4.321		
7,200.0	7,159.7	7,195.5	7,159.7	26.2	25.9	89.65	-437.1	3.0	221.0	169.2	51.82	4.265		
7,300.0	7,259.7	7,295.5	7,259.7	26.5	26.2	89.65	-437.1	3.0	221.0	168.5	52.49	4.211		
7,400.0	7,359.7	7,395.5	7,359.7	26.8	26.6	89.65	-437.1	3.0	221.0	167.8	53.16	4.157		
7,500.0	7,459.7	7,495.5	7,459.7	27.2	26.9	89.65	-437.1	3.0	221.0	167.2	53.84	4.105		
7,600.0	7,559.7	7,595.5	7,559.7	27.5	27.2	89.65	-437.1	3.0	221.0	166.5	54.51	4.054		
7,700.0	7,659.7	7,695.5	7,659.7	27.8	27.6	89.65	-437.1	3.0	221.0	165.8	55.19	4.004		
7,800.0	7,759.7	7,795.5	7,759.7	28.2	27.9	89.65	-437.1	3.0	221.0	165.1	55.87	3.956		
7,900.0	7,859.7	7,895.5	7,859.7	28.5	28.2	89.65	-437.1	3.0	221.0	164.5	56.55	3.908		
8,000.0	7,959.7	7,995.5	7,959.7	28.9	28.6	89.65	-437.1	3.0	221.0	163.8	57.23	3.862		
8,100.0	8,059.7	8,095.5	8,059.7	29.2	28.9	89.65	-437.1	3.0	221.0	163.1	57.91	3.816		
8,200.0	8,159.7	8,195.5	8,159.7	29.5	29.3	89.65	-437.1	3.0	221.0	162.4	58.59	3.772		
8,300.0	8,259.7	8,295.5	8,259.7	29.9	29.6	89.65	-437.1	3.0	221.0	161.7	59.27	3.728		
8,400.0	8,359.7	8,395.5	8,359.7	30.2	30.0	89.65	-437.1	3.0	221.0	161.0	59.96	3.686		
8,500.0	8,459.7	8,495.5	8,459.7	30.6	30.3	89.65	-437.1	3.0	221.0	160.4	60.64	3.644		
8,600.0	8,559.7	8,595.5	8,559.7	30.9	30.6	89.65	-437.1	3.0	221.0	159.7	61.33	3.604		
8,700.0	8,659.7	8,695.5	8,659.7	31.2	31.0	89.65	-437.1	3.0	221.0	159.0	62.01	3.564		
8,800.0	8,759.7	8,795.5	8,759.7	31.6	31.3	89.65	-437.1	3.0	221.0	158.3	62.70	3.525		
8,900.0	8,859.7	8,895.5	8,859.7	31.9	31.7	89.65	-437.1	3.0	221.0	157.6	63.39	3.487		
9,000.0	8,959.7	8,995.5	8,959.7	32.3	32.0	89.65	-437.1	3.0	221.0	156.9	64.08	3.449		
9,100.0	9,059.7	9,095.5	9,059.7	32.6	32.4	89.65	-437.1	3.0	221.0	156.2	64.76	3.412		
9,200.0	9,159.7	9,195.5	9,159.7	32.9	32.7	89.65	-437.1	3.0	221.0	155.6	65.45	3.377		
9,300.0	9,259.7	9,295.5	9,259.7	33.3	33.1	89.65	-437.1	3.0	221.0	154.9	66.14	3.341		
9,400.0	9,359.7	9,395.5	9,359.7	33.6	33.4	89.65	-437.1	3.0	221.0	154.2	66.83	3.307		
9,500.0	9,459.7	9,495.5	9,459.7	34.0	33.7	89.65	-437.1	3.0	221.0	153.5	67.52	3.273		
9,600.0	9,559.7	9,595.5	9,559.7	34.3	34.1	89.65	-437.1	3.0	221.0	152.8	68.21	3.240		
9,700.0	9,659.7	9,695.5	9,659.7	34.7	34.4	89.65	-437.1	3.0	221.0	152.1	68.91	3.207		
9,800.0	9,759.7	9,795.5	9,759.7	35.0	34.8	89.65	-437.1	3.0	221.0	151.4	69.60	3.175		
9,900.0	9,859.7	9,895.5	9,859.7	35.3	35.1	89.65	-437.1	3.0	221.0	150.7	70.29	3.144		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Permian Resources

Anticollision Report

Company:	NEW MEXICO	Local Co-ordinate Reference:	Well EL CAMPEON FED COM 511H
Project:	(SP) LEA	TVD Reference:	KB @ 3200.0usft
Reference Site:	EL CAMPEON FED COM PROJECT	MD Reference:	KB @ 3200.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	EL CAMPEON FED COM 511H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Compass
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: EL CAMPEON FED COM PROJECT - EL CAMPEON FED COM 431H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning	
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
10,000.0	9,959.7	9,995.5	9,959.7	35.7	35.5	89.65	-437.1	3.0	221.0	150.0	70.98	3.113		
10,100.0	10,059.7	10,095.5	10,059.7	36.0	35.8	89.65	-437.1	3.0	221.0	149.3	71.68	3.083		
10,200.0	10,159.7	10,195.5	10,159.7	36.4	36.2	89.65	-437.1	3.0	221.0	148.6	72.37	3.054		
10,300.0	10,259.7	10,295.5	10,259.7	36.7	36.5	89.65	-437.1	3.0	221.0	147.9	73.07	3.025		
10,400.0	10,359.7	10,395.5	10,359.7	37.1	36.9	89.65	-437.1	3.0	221.0	147.2	73.76	2.996		
10,500.0	10,459.7	10,495.5	10,459.7	37.4	37.2	89.65	-437.1	3.0	221.0	146.5	74.46	2.968		
10,600.0	10,559.7	10,595.5	10,559.7	37.8	37.6	89.65	-437.1	3.0	221.0	145.8	75.15	2.941		
10,700.0	10,659.7	10,695.5	10,659.7	38.1	37.9	89.65	-437.1	3.0	221.0	145.2	75.85	2.914		
10,800.0	10,759.7	10,795.5	10,759.7	38.5	38.3	89.65	-437.1	3.0	221.0	144.5	76.55	2.887		
10,900.0	10,859.7	10,895.5	10,859.7	38.8	38.6	89.65	-437.1	3.0	221.0	143.8	77.24	2.861		
11,000.0	10,959.7	10,995.5	10,959.7	39.2	39.0	89.65	-437.1	3.0	221.0	143.1	77.94	2.836		
11,100.0	11,059.7	11,095.5	11,059.7	39.5	39.3	89.65	-437.1	3.0	221.0	142.4	78.64	2.810		
11,200.0	11,159.7	11,195.5	11,159.7	39.8	39.7	89.65	-437.1	3.0	221.0	141.7	79.34	2.786		
11,300.0	11,259.7	11,295.5	11,259.7	40.2	40.0	89.65	-437.1	3.0	221.0	141.0	80.04	2.761		
11,400.0	11,359.7	11,395.5	11,359.7	40.5	40.4	89.65	-437.1	3.0	221.0	140.3	80.73	2.737		
11,500.0	11,459.7	11,495.5	11,459.7	40.9	40.7	89.65	-437.1	3.0	221.0	139.6	81.43	2.714		
11,600.0	11,559.7	11,595.5	11,559.7	41.2	41.1	89.65	-437.1	3.0	221.0	138.9	82.13	2.691		
11,700.0	11,659.7	11,695.5	11,659.7	41.6	41.4	89.65	-437.1	3.0	221.0	138.2	82.83	2.668		
11,800.0	11,759.7	11,795.5	11,759.7	41.9	41.8	89.65	-437.1	3.0	221.0	137.5	83.53	2.646		
11,900.0	11,859.7	11,895.5	11,859.7	42.3	42.1	89.65	-437.1	3.0	221.0	136.8	84.23	2.624		
12,000.0	11,959.7	11,995.5	11,959.7	42.6	42.5	89.65	-437.1	3.0	221.0	136.1	84.93	2.602		
12,100.0	12,059.7	12,095.5	12,059.7	43.0	42.8	89.65	-437.1	3.0	221.0	135.4	85.63	2.581		
12,200.0	12,159.7	12,195.5	12,159.7	43.3	43.2	89.65	-437.1	3.0	221.0	134.7	86.34	2.560		
12,211.2	12,170.9	12,206.7	12,170.9	43.4	43.2	89.65	-437.1	3.0	221.0	134.6	86.41	2.558		
12,300.0	12,259.7	12,295.5	12,259.7	43.7	43.5	89.72	-437.4	3.0	221.0	134.0	87.04	2.539		
12,400.0	12,359.7	12,393.1	12,356.2	44.0	43.9	93.14	-450.6	3.1	221.5	133.7	87.76	2.524		
12,500.0	12,459.7	12,482.0	12,440.2	44.4	44.2	100.50	-479.5	3.4	226.0	137.7	88.31	2.560		
12,591.8	12,551.5	12,552.5	12,502.0	44.7	44.5	108.61	-513.2	3.7	239.2	151.2	88.01	2.717		
12,600.0	12,559.7	12,558.2	12,506.8	44.7	44.6	-69.91	-516.3	3.8	240.9	153.0	87.92	2.740		
12,625.0	12,584.7	12,575.0	12,520.7	44.8	44.6	-67.27	-525.8	3.9	246.5	158.9	87.56	2.815		
12,650.0	12,609.6	12,592.9	12,535.1	44.9	44.7	-64.59	-536.5	4.0	252.4	165.3	87.20	2.895		
12,675.0	12,634.3	12,610.0	12,548.4	45.0	44.8	-62.12	-547.1	4.1	258.8	172.0	86.73	2.984		
12,700.0	12,658.8	12,625.0	12,559.8	45.1	44.8	-59.95	-556.9	4.2	265.3	179.2	86.08	3.082		
12,725.0	12,683.0	12,643.5	12,573.4	45.2	44.9	-57.57	-569.4	4.3	272.0	186.4	85.61	3.177		
12,750.0	12,706.8	12,660.0	12,585.2	45.3	45.0	-55.50	-581.1	4.4	278.8	193.9	84.98	3.281		
12,775.0	12,730.2	12,675.0	12,595.4	45.4	45.1	-53.66	-591.9	4.5	285.7	201.5	84.22	3.393		
12,800.0	12,753.2	12,692.7	12,607.2	45.5	45.2	-51.74	-605.2	4.6	292.6	208.9	83.62	3.499		
12,825.0	12,775.5	12,708.9	12,617.4	45.6	45.2	-50.06	-617.7	4.8	299.3	216.4	82.90	3.611		
12,850.0	12,797.3	12,725.0	12,627.2	45.7	45.3	-48.49	-630.5	4.9	306.0	223.9	82.17	3.724		
12,875.0	12,818.4	12,740.9	12,636.5	45.8	45.4	-47.04	-643.4	5.0	312.6	231.1	81.42	3.839		
12,900.0	12,838.7	12,756.8	12,645.3	45.9	45.5	-45.71	-656.6	5.2	318.9	238.2	80.67	3.953		
12,925.0	12,858.3	12,775.0	12,654.8	46.0	45.6	-44.37	-672.2	5.3	325.1	245.0	80.10	4.059		
12,950.0	12,877.0	12,788.2	12,661.4	46.1	45.6	-43.34	-683.7	5.4	331.0	251.8	79.20	4.179		
12,975.0	12,894.9	12,800.0	12,667.0	46.2	45.7	-42.44	-694.0	5.5	336.6	258.4	78.22	4.304		
13,000.0	12,911.8	12,819.5	12,675.6	46.3	45.8	-41.36	-711.5	5.7	342.0	264.2	77.77	4.397		
13,025.0	12,927.7	12,835.0	12,682.0	46.5	45.9	-40.50	-725.6	5.8	347.0	269.9	77.10	4.501		
13,050.0	12,942.5	12,850.0	12,687.7	46.6	45.9	-39.73	-739.5	6.0	351.7	275.3	76.42	4.603		
13,075.0	12,956.3	12,865.9	12,693.3	46.7	46.0	-39.02	-754.4	6.1	356.1	280.3	75.83	4.696		
13,100.0	12,969.0	12,881.3	12,698.2	46.8	46.1	-38.39	-768.9	6.3	360.2	284.9	75.26	4.786		
13,125.0	12,980.6	12,900.0	12,703.6	46.9	46.2	-37.78	-786.9	6.4	363.9	289.0	74.89	4.859		
13,150.0	12,991.0	12,911.9	12,706.6	47.0	46.3	-37.35	-798.4	6.5	367.1	292.9	74.24	4.945		
13,175.0	13,000.1	12,925.0	12,709.6	47.2	46.3	-36.95	-811.1	6.7	370.0	296.3	73.71	5.020		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Permian Resources

Anticollision Report

Company:	NEW MEXICO	Local Co-ordinate Reference:	Well EL CAMPEON FED COM 511H
Project:	(SP) LEA	TVD Reference:	KB @ 3200.0usft
Reference Site:	EL CAMPEON FED COM PROJECT	MD Reference:	KB @ 3200.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	EL CAMPEON FED COM 511H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Compass
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: EL CAMPEON FED COM PROJECT - EL CAMPEON FED COM 431H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning	
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
13,200.0	13,008.1	12,942.5	12,713.1	47.3	46.4	-36.57	-828.3	6.8	372.5	299.1	73.42	5.074		
13,225.0	13,014.8	12,957.7	12,715.6	47.4	46.5	-36.27	-843.3	7.0	374.7	301.6	73.10	5.125		
13,250.0	13,020.2	12,975.0	12,717.9	47.5	46.6	-36.02	-860.4	7.1	376.4	303.5	72.89	5.164		
13,275.0	13,024.3	12,988.2	12,719.2	47.7	46.6	-35.86	-873.5	7.3	377.7	305.0	72.63	5.200		
13,300.0	13,027.1	13,000.0	12,720.1	47.8	46.7	-35.74	-885.3	7.4	378.6	306.1	72.43	5.226		
13,325.0	13,028.7	13,018.6	12,720.8	47.9	46.8	-35.67	-903.9	7.6	379.0	306.6	72.43	5.233		
13,341.8	13,029.0	13,029.3	12,721.0	48.0	46.9	-35.66	-914.6	7.7	379.1	306.7	72.43	5.234		
13,361.5	13,029.0	13,048.2	12,721.0	48.1	47.0	-35.66	-933.5	7.9	379.1	306.6	72.53	5.227		
13,400.0	13,029.0	13,086.7	12,721.0	48.3	47.2	-35.66	-972.0	8.2	379.1	306.3	72.74	5.212		
13,500.0	13,029.0	13,186.7	12,721.0	48.8	47.7	-35.66	-1,072.0	9.2	379.1	305.7	73.34	5.169		
13,600.0	13,029.0	13,286.7	12,721.0	49.4	48.3	-35.66	-1,172.0	10.2	379.1	305.1	74.01	5.122		
13,700.0	13,029.0	13,386.7	12,721.0	50.1	49.0	-35.66	-1,272.0	11.2	379.1	304.3	74.74	5.072		
13,800.0	13,029.0	13,486.7	12,721.0	50.8	49.7	-35.66	-1,372.0	12.2	379.1	303.5	75.54	5.018		
13,900.0	13,029.0	13,586.7	12,721.0	51.5	50.5	-35.66	-1,472.0	13.1	379.1	302.7	76.40	4.962		
14,000.0	13,029.0	13,686.7	12,721.0	52.3	51.3	-35.66	-1,572.0	14.1	379.1	301.8	77.32	4.903		
14,100.0	13,029.0	13,786.7	12,721.0	53.1	52.1	-35.66	-1,671.9	15.1	379.1	300.8	78.29	4.842		
14,200.0	13,029.0	13,886.7	12,721.0	53.9	53.0	-35.66	-1,771.9	16.1	379.1	299.8	79.32	4.779		
14,300.0	13,029.0	13,986.7	12,721.0	54.8	53.9	-35.66	-1,871.9	17.1	379.1	298.7	80.41	4.715		
14,400.0	13,029.0	14,086.7	12,721.0	55.7	54.8	-35.66	-1,971.9	18.0	379.1	297.5	81.54	4.649		
14,500.0	13,029.0	14,186.7	12,721.0	56.7	55.8	-35.66	-2,071.9	19.0	379.1	296.4	82.72	4.583		
14,600.0	13,029.0	14,286.7	12,721.0	57.7	56.8	-35.66	-2,171.9	20.0	379.1	295.1	83.95	4.515		
14,700.0	13,029.0	14,386.7	12,721.0	58.7	57.8	-35.66	-2,271.9	21.0	379.1	293.9	85.23	4.448		
14,800.0	13,029.0	14,486.7	12,721.0	59.7	58.9	-35.66	-2,371.9	22.0	379.1	292.5	86.54	4.380		
14,900.0	13,029.0	14,586.7	12,721.0	60.8	60.0	-35.66	-2,471.9	22.9	379.1	291.2	87.90	4.313		
15,000.0	13,029.0	14,686.7	12,721.0	61.9	61.1	-35.66	-2,571.9	23.9	379.1	289.8	89.30	4.245		
15,100.0	13,029.0	14,786.7	12,721.0	63.0	62.2	-35.66	-2,671.9	24.9	379.1	288.4	90.73	4.178		
15,200.0	13,029.0	14,886.7	12,721.0	64.2	63.4	-35.66	-2,771.9	25.9	379.1	286.9	92.20	4.111		
15,300.0	13,029.0	14,986.7	12,721.0	65.3	64.6	-35.66	-2,871.9	26.9	379.1	285.4	93.71	4.045		
15,400.0	13,029.0	15,086.7	12,721.0	66.5	65.8	-35.66	-2,971.9	27.8	379.1	283.8	95.24	3.980		
15,500.0	13,029.0	15,186.7	12,721.0	67.7	67.0	-35.66	-3,071.9	28.8	379.1	282.3	96.81	3.916		
15,600.0	13,029.0	15,286.7	12,721.0	69.0	68.3	-35.66	-3,171.9	29.8	379.1	280.7	98.40	3.852		
15,700.0	13,029.0	15,386.7	12,721.0	70.2	69.5	-35.66	-3,271.9	30.8	379.1	279.1	100.03	3.790		
15,800.0	13,029.0	15,486.7	12,721.0	71.4	70.8	-35.66	-3,371.9	31.8	379.1	277.4	101.68	3.728		
15,900.0	13,029.0	15,586.7	12,721.0	72.7	72.1	-35.66	-3,471.9	32.7	379.1	275.7	103.35	3.668		
16,000.0	13,029.0	15,686.7	12,721.0	74.0	73.4	-35.66	-3,571.9	33.7	379.1	274.0	105.05	3.609		
16,100.0	13,029.0	15,786.7	12,721.0	75.3	74.7	-35.66	-3,671.8	34.7	379.1	272.3	106.77	3.550		
16,200.0	13,029.0	15,886.7	12,721.0	76.6	76.0	-35.66	-3,771.8	35.7	379.1	270.6	108.51	3.493		
16,300.0	13,029.0	15,986.7	12,721.0	78.0	77.4	-35.66	-3,871.8	36.7	379.1	268.8	110.28	3.438		
16,400.0	13,029.0	16,086.7	12,721.0	79.3	78.7	-35.66	-3,971.8	37.6	379.1	267.0	112.06	3.383		
16,500.0	13,029.0	16,186.7	12,721.0	80.6	80.1	-35.66	-4,071.8	38.6	379.1	265.2	113.86	3.329		
16,600.0	13,029.0	16,286.7	12,721.0	82.0	81.4	-35.66	-4,171.8	39.6	379.1	263.4	115.69	3.277		
16,700.0	13,029.0	16,386.7	12,721.0	83.4	82.8	-35.66	-4,271.8	40.6	379.1	261.6	117.52	3.226		
16,800.0	13,029.0	16,486.7	12,721.0	84.8	84.2	-35.66	-4,371.8	41.6	379.1	259.7	119.38	3.176		
16,900.0	13,029.0	16,586.7	12,721.0	86.1	85.6	-35.66	-4,471.8	42.5	379.1	257.8	121.25	3.127		
17,000.0	13,029.0	16,686.7	12,721.0	87.5	87.0	-35.66	-4,571.8	43.5	379.1	256.0	123.13	3.079		
17,100.0	13,029.0	16,786.7	12,721.0	89.0	88.5	-35.66	-4,671.8	44.5	379.1	254.1	125.03	3.032		
17,200.0	13,029.0	16,886.7	12,721.0	90.4	89.9	-35.66	-4,771.8	45.5	379.1	252.1	126.94	2.986		
17,300.0	13,029.0	16,986.7	12,721.0	91.8	91.3	-35.66	-4,871.8	46.4	379.1	250.2	128.87	2.942		
17,400.0	13,029.0	17,086.7	12,721.0	93.2	92.8	-35.66	-4,971.8	47.4	379.1	248.3	130.80	2.898		
17,500.0	13,029.0	17,186.7	12,721.0	94.7	94.2	-35.66	-5,071.8	48.4	379.1	246.3	132.75	2.856		
17,600.0	13,029.0	17,286.7	12,721.0	96.1	95.7	-35.66	-5,171.8	49.4	379.1	244.4	134.71	2.814		
17,700.0	13,029.0	17,386.7	12,721.0	97.6	97.1	-35.66	-5,271.8	50.4	379.1	242.4	136.68	2.773		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Permian Resources

Anticollision Report

Company:	NEW MEXICO	Local Co-ordinate Reference:	Well EL CAMPEON FED COM 511H
Project:	(SP) LEA	TVD Reference:	KB @ 3200.0usft
Reference Site:	EL CAMPEON FED COM PROJECT	MD Reference:	KB @ 3200.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	EL CAMPEON FED COM 511H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Compass
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design:EL CAMPEON FED COM PROJECT - EL CAMPEON FED COM 431H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program:		0-MWD					Rule Assigned:				Offset Well Error:		0.0 usft	
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Warning						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
17,800.0	13,029.0	17,486.7	12,721.0	99.0	98.6	-35.66	-5,371.8	51.3	379.1	240.4	138.67	2.734		
17,900.0	13,029.0	17,586.7	12,721.0	100.5	100.1	-35.66	-5,471.8	52.3	379.1	238.4	140.66	2.695		
18,000.0	13,029.0	17,686.7	12,721.0	102.0	101.5	-35.66	-5,571.8	53.3	379.1	236.4	142.66	2.657		
18,100.0	13,029.0	17,786.7	12,721.0	103.4	103.0	-35.66	-5,671.8	54.3	379.1	234.4	144.67	2.620		
18,200.0	13,029.0	17,886.7	12,721.0	104.9	104.5	-35.66	-5,771.7	55.3	379.1	232.4	146.69	2.584		
18,300.0	13,029.0	17,986.7	12,721.0	106.4	106.0	-35.66	-5,871.7	56.2	379.1	230.4	148.72	2.549		
18,326.7	13,029.0	18,013.4	12,721.0	106.8	106.4	-35.66	-5,898.4	56.5	379.1	229.8	149.26	2.540		
18,327.4	13,029.0	18,014.0	12,721.0	106.8	106.4	-35.66	-5,899.1	56.5	379.1	229.8	149.27	2.540		
18,330.6	13,029.0	18,017.3	12,721.0	106.8	106.5	-35.66	-5,902.3	56.5	379.1	229.7	149.34	2.538		
18,400.0	13,029.0	18,086.6	12,721.0	107.9	107.5	-35.66	-5,971.7	57.2	379.1	228.3	150.75	2.515		
18,500.0	13,029.0	18,186.6	12,721.0	109.4	109.0	-35.66	-6,071.7	58.2	379.1	226.3	152.79	2.481		
18,600.0	13,029.0	18,286.6	12,721.0	110.9	110.5	-35.66	-6,171.7	59.3	379.1	224.2	154.84	2.448		
18,700.0	13,029.0	18,386.6	12,721.0	112.4	112.0	-35.66	-6,271.7	60.3	379.1	222.2	156.90	2.416		
18,800.0	13,029.0	18,486.6	12,721.0	113.9	113.5	-35.66	-6,371.7	61.3	379.1	220.1	158.97	2.385		
18,900.0	13,029.0	18,586.6	12,721.0	115.4	115.1	-35.66	-6,471.7	62.3	379.1	218.0	161.04	2.354		
19,000.0	13,029.0	18,686.6	12,721.0	116.9	116.6	-35.66	-6,571.7	63.3	379.1	216.0	163.12	2.324		
19,100.0	13,029.0	18,786.6	12,721.0	118.4	118.1	-35.66	-6,671.6	64.3	379.1	213.9	165.20	2.295		
19,200.0	13,029.0	18,886.6	12,721.0	119.9	119.6	-35.66	-6,771.6	65.3	379.1	211.8	167.29	2.266		
19,300.0	13,029.0	18,986.6	12,721.0	121.5	121.2	-35.66	-6,871.6	66.3	379.1	209.7	169.38	2.238		
19,400.0	13,029.0	19,086.6	12,721.0	123.0	122.7	-35.66	-6,971.6	67.3	379.1	207.6	171.48	2.211		
19,500.0	13,029.0	19,186.6	12,721.0	124.5	124.2	-35.66	-7,071.6	68.3	379.1	205.5	173.59	2.184		
19,600.0	13,029.0	19,286.6	12,721.0	126.1	125.8	-35.66	-7,171.6	69.3	379.1	203.4	175.70	2.158		
19,700.0	13,029.0	19,386.6	12,721.0	127.6	127.3	-35.66	-7,271.6	70.3	379.1	201.3	177.82	2.132		
19,800.0	13,029.0	19,486.6	12,721.0	129.1	128.9	-35.66	-7,371.6	71.3	379.1	199.1	179.94	2.107		
19,900.0	13,029.0	19,586.6	12,721.0	130.7	130.4	-35.66	-7,471.6	72.3	379.1	197.0	182.06	2.082		
20,000.0	13,029.0	19,686.6	12,721.0	132.2	132.0	-35.66	-7,571.6	73.3	379.1	194.9	184.19	2.058		
20,100.0	13,029.0	19,786.6	12,721.0	133.8	133.5	-35.66	-7,671.6	74.3	379.1	192.8	186.33	2.035		
20,200.0	13,029.0	19,886.6	12,721.0	135.3	135.1	-35.66	-7,771.6	75.3	379.1	190.6	188.46	2.011		
20,300.0	13,029.0	19,986.6	12,721.0	136.9	136.6	-35.66	-7,871.6	76.3	379.1	188.5	190.61	1.989		
20,400.0	13,029.0	20,086.6	12,721.0	138.4	138.2	-35.66	-7,971.6	77.3	379.1	186.3	192.75	1.967		
20,500.0	13,029.0	20,186.6	12,721.0	140.0	139.7	-35.66	-8,071.6	78.3	379.1	184.2	194.90	1.945		
20,600.0	13,029.0	20,286.6	12,721.0	141.5	141.3	-35.66	-8,171.6	79.3	379.1	182.0	197.05	1.924		
20,700.0	13,029.0	20,386.6	12,721.0	143.1	142.9	-35.66	-8,271.6	80.3	379.1	179.9	199.21	1.903		
20,800.0	13,029.0	20,486.6	12,721.0	144.7	144.4	-35.66	-8,371.6	81.3	379.1	177.7	201.37	1.883		
20,900.0	13,029.0	20,586.6	12,721.0	146.2	146.0	-35.66	-8,471.6	82.4	379.1	175.6	203.53	1.863		
21,000.0	13,029.0	20,686.6	12,721.0	147.8	147.6	-35.66	-8,571.6	83.4	379.1	173.4	205.70	1.843		
21,100.0	13,029.0	20,786.6	12,721.0	149.4	149.1	-35.66	-8,671.5	84.4	379.1	171.2	207.87	1.824		
21,100.4	13,029.0	20,787.1	12,721.0	149.4	149.1	-35.66	-8,672.0	84.4	379.1	171.2	207.88	1.824		
21,200.0	13,029.0	20,855.3	12,721.0	150.9	150.2	-35.66	-8,740.2	85.0	380.4	171.3	209.04	1.820 SF		
21,239.3	13,029.0	20,855.3	12,721.0	151.6	150.2	-35.66	-8,740.2	85.0	385.6	178.5	207.14	1.862		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

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COMPASS 5000.17 Build 03

Permian Resources

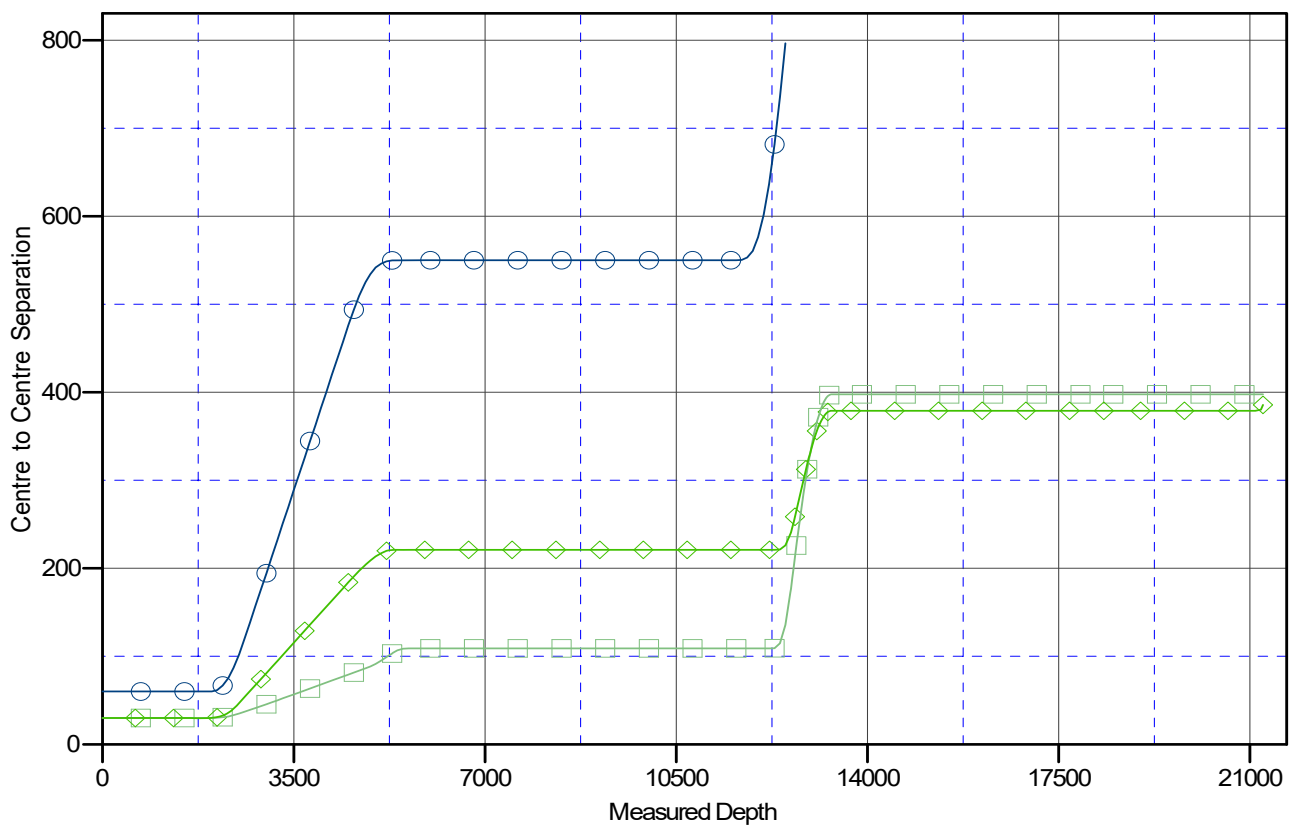
Anticollision Report

Company:	NEW MEXICO	Local Co-ordinate Reference:	Well EL CAMPEON FED COM 511H
Project:	(SP) LEA	TVD Reference:	KB @ 3200.0usft
Reference Site:	EL CAMPEON FED COM PROJECT	MD Reference:	KB @ 3200.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	EL CAMPEON FED COM 511H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Compass
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Reference Depths are relative to KB @ 3200.0usft
 Offset Depths are relative to Offset Datum
 Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: EL CAMPEON FED COM 511H
 Coordinate System is US State Plane 1983, New Mexico Eastern Zone
 Grid Convergence at Surface is: 0.50°

Ladder Plot



LEGEND

—■— EL CAMPEON FED COM401H,OWB/PWP0 V0
 —●— EL CAMPEON FED COM301H,OWB/PWP0 V0
 —◆— EL CAMPEON FED COM431H,OWB/PWP0 V0

Permian Resources

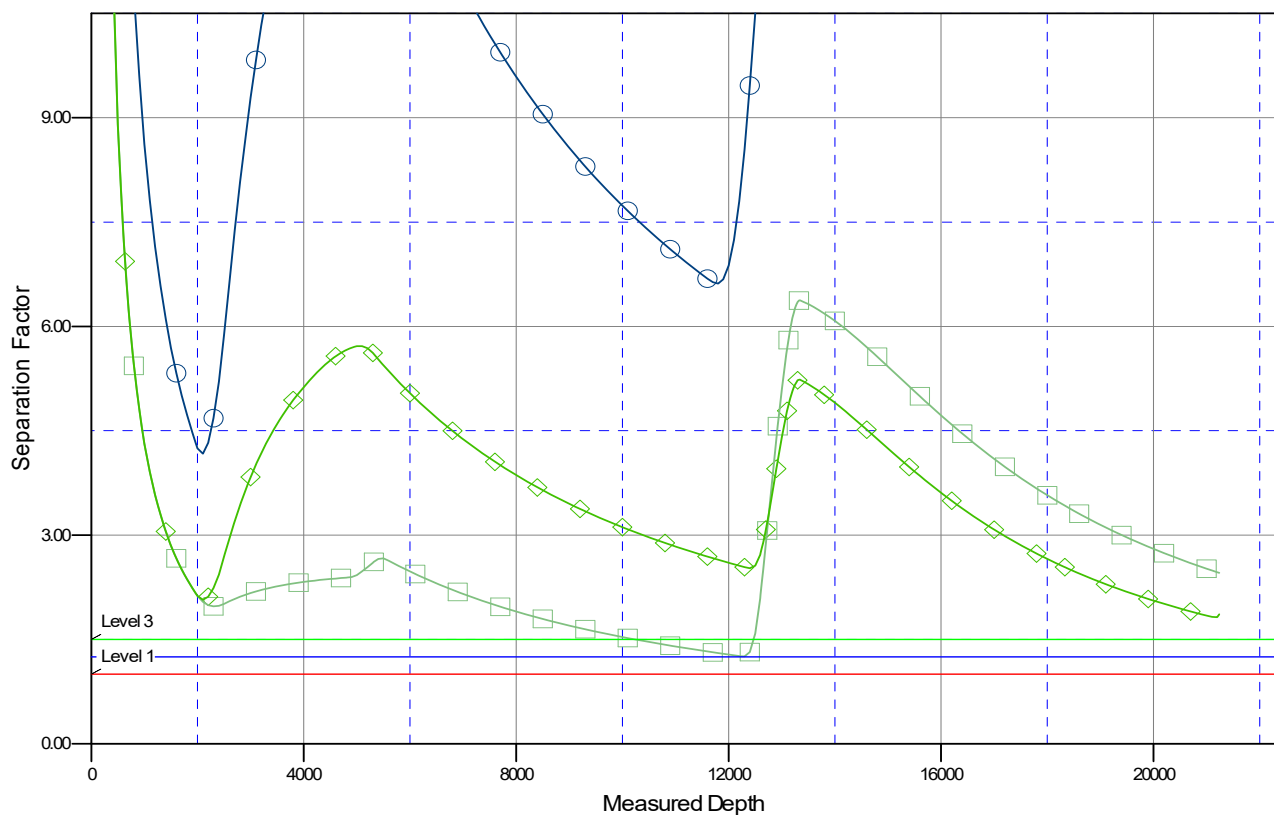
Anticollision Report

Company:	NEW MEXICO	Local Co-ordinate Reference:	Well EL CAMPEON FED COM 511H
Project:	(SP) LEA	TVD Reference:	KB @ 3200.0usft
Reference Site:	EL CAMPEON FED COM PROJECT	MD Reference:	KB @ 3200.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	EL CAMPEON FED COM 511H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Compass
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Reference Depths are relative to KB @ 3200.0usft
 Offset Depths are relative to Offset Datum
 Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: EL CAMPEON FED COM 511H
 Coordinate System is US State Plane 1983, New Mexico Eastern Zone
 Grid Convergence at Surface is: 0.50°

Separation Factor Plot



LEGEND

■ EL CAMPEON FED COM401H, OVB/PWP0 V0
 ● EL CAMPEON FED COM301H, OVB/PWP0 V0
 ◆ EL CAMPEON FED COM431H, OVB/PWP0 V0

NEW MEXICO

(SP) LEA

EL CAMPEON FED COM PROJECT

EL CAMPEON FED COM 511H

OWB

Plan: PWP0

Standard Planning Report - Geographic

13 December, 2023

Permian Resources
Planning Report - Geographic

Database:	Compass	Local Co-ordinate Reference:	Well EL CAMPEON FED COM 511H
Company:	NEW MEXICO	TVD Reference:	KB @ 3200.0usft
Project:	(SP) LEA	MD Reference:	KB @ 3200.0usft
Site:	EL CAMPEON FED COM PROJECT	North Reference:	Grid
Well:	EL CAMPEON FED COM 511H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Project	(SP) LEA		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	EL CAMPEON FED COM PROJECT				
Site Position:		Northing:	371,005.08 usft	Latitude:	32° 0' 59.423 N
From:	Map	Easting:	831,976.77 usft	Longitude:	103° 23' 44.166 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "		

Well	EL CAMPEON FED COM 511H					
Well Position	+N/-S	0.0 usft	Northing:	371,004.59 usft	Latitude:	32° 0' 59.424 N
	+E/-W	0.0 usft	Easting:	831,916.77 usft	Longitude:	103° 23' 44.863 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft	Ground Level:	3,170.0 usft
Grid Convergence:		0.50 °				

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	12/31/2009	7.65	60.08	48,689.16588474

Design	PWP0			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	180.88

Plan Survey Tool Program	Date	12/13/2023		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	21,239.3 PWP0 (OWB)	MWD	
			OWSG_Rev2_ MWD - Star	

Planning Report - Geographic

Database:	Compass	Local Co-ordinate Reference:	Well EL CAMPEON FED COM 511H
Company:	NEW MEXICO	TVD Reference:	KB @ 3200.0usft
Project:	(SP) LEA	MD Reference:	KB @ 3200.0usft
Site:	EL CAMPEON FED COM PROJECT	North Reference:	Grid
Well:	EL CAMPEON FED COM 511H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,500.0	10.00	206.43	2,497.5	-39.0	-19.4	2.00	2.00	0.00	206.43	
4,818.8	10.00	206.43	4,781.0	-399.5	-198.6	0.00	0.00	0.00	0.00	
5,318.8	0.00	0.00	5,278.5	-438.5	-218.0	2.00	-2.00	0.00	180.00	
12,591.8	0.00	0.00	12,551.5	-438.5	-218.0	0.00	0.00	0.00	0.00	
13,341.8	90.00	179.44	13,029.0	-915.9	-213.3	12.00	12.00	23.93	179.44	
18,326.7	90.00	179.44	13,029.0	-5,900.6	-164.5	0.00	0.00	0.00	0.00	SLC-EL CAMPEON
18,327.4	90.00	179.42	13,029.0	-5,901.3	-164.5	2.00	0.06	-2.00	-88.35	
21,239.3	90.00	179.42	13,029.0	-8,813.0	-135.2	0.00	0.00	0.00	0.00	BHL-EL CAMPEON

Permian Resources

Planning Report - Geographic

Database:	Compass	Local Co-ordinate Reference:	Well EL CAMPEON FED COM 511H
Company:	NEW MEXICO	TVD Reference:	KB @ 3200.0usft
Project:	(SP) LEA	MD Reference:	KB @ 3200.0usft
Site:	EL CAMPEON FED COM PROJECT	North Reference:	Grid
Well:	EL CAMPEON FED COM 511H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
0.0	0.00	0.00	0.0	0.0	0.0	371,004.59	831,916.77	32° 0' 59.424 N	103° 23' 44.863 W
100.0	0.00	0.00	100.0	0.0	0.0	371,004.59	831,916.77	32° 0' 59.424 N	103° 23' 44.863 W
200.0	0.00	0.00	200.0	0.0	0.0	371,004.59	831,916.77	32° 0' 59.424 N	103° 23' 44.863 W
300.0	0.00	0.00	300.0	0.0	0.0	371,004.59	831,916.77	32° 0' 59.424 N	103° 23' 44.863 W
400.0	0.00	0.00	400.0	0.0	0.0	371,004.59	831,916.77	32° 0' 59.424 N	103° 23' 44.863 W
500.0	0.00	0.00	500.0	0.0	0.0	371,004.59	831,916.77	32° 0' 59.424 N	103° 23' 44.863 W
600.0	0.00	0.00	600.0	0.0	0.0	371,004.59	831,916.77	32° 0' 59.424 N	103° 23' 44.863 W
700.0	0.00	0.00	700.0	0.0	0.0	371,004.59	831,916.77	32° 0' 59.424 N	103° 23' 44.863 W
800.0	0.00	0.00	800.0	0.0	0.0	371,004.59	831,916.77	32° 0' 59.424 N	103° 23' 44.863 W
900.0	0.00	0.00	900.0	0.0	0.0	371,004.59	831,916.77	32° 0' 59.424 N	103° 23' 44.863 W
1,000.0	0.00	0.00	1,000.0	0.0	0.0	371,004.59	831,916.77	32° 0' 59.424 N	103° 23' 44.863 W
1,100.0	0.00	0.00	1,100.0	0.0	0.0	371,004.59	831,916.77	32° 0' 59.424 N	103° 23' 44.863 W
1,200.0	0.00	0.00	1,200.0	0.0	0.0	371,004.59	831,916.77	32° 0' 59.424 N	103° 23' 44.863 W
1,300.0	0.00	0.00	1,300.0	0.0	0.0	371,004.59	831,916.77	32° 0' 59.424 N	103° 23' 44.863 W
1,400.0	0.00	0.00	1,400.0	0.0	0.0	371,004.59	831,916.77	32° 0' 59.424 N	103° 23' 44.863 W
1,500.0	0.00	0.00	1,500.0	0.0	0.0	371,004.59	831,916.77	32° 0' 59.424 N	103° 23' 44.863 W
1,600.0	0.00	0.00	1,600.0	0.0	0.0	371,004.59	831,916.77	32° 0' 59.424 N	103° 23' 44.863 W
1,700.0	0.00	0.00	1,700.0	0.0	0.0	371,004.59	831,916.77	32° 0' 59.424 N	103° 23' 44.863 W
1,800.0	0.00	0.00	1,800.0	0.0	0.0	371,004.59	831,916.77	32° 0' 59.424 N	103° 23' 44.863 W
1,900.0	0.00	0.00	1,900.0	0.0	0.0	371,004.59	831,916.77	32° 0' 59.424 N	103° 23' 44.863 W
2,000.0	0.00	0.00	2,000.0	0.0	0.0	371,004.59	831,916.77	32° 0' 59.424 N	103° 23' 44.863 W
Start Build 2.00									
2,100.0	2.00	206.43	2,100.0	-1.6	-0.8	371,003.03	831,915.99	32° 0' 59.408 N	103° 23' 44.872 W
2,200.0	4.00	206.43	2,199.8	-6.2	-3.1	370,998.34	831,913.66	32° 0' 59.362 N	103° 23' 44.900 W
2,300.0	6.00	206.43	2,299.5	-14.1	-7.0	370,990.54	831,909.78	32° 0' 59.285 N	103° 23' 44.945 W
2,400.0	8.00	206.43	2,398.7	-25.0	-12.4	370,979.62	831,904.36	32° 0' 59.178 N	103° 23' 45.009 W
2,500.0	10.00	206.43	2,497.5	-39.0	-19.4	370,965.62	831,897.39	32° 0' 59.040 N	103° 23' 45.092 W
Start 2318.8 hold at 2500.0 MD									
2,600.0	10.00	206.43	2,595.9	-54.5	-27.1	370,950.07	831,889.66	32° 0' 58.887 N	103° 23' 45.183 W
2,700.0	10.00	206.43	2,694.4	-70.1	-34.8	370,934.52	831,881.93	32° 0' 58.733 N	103° 23' 45.274 W
2,800.0	10.00	206.43	2,792.9	-85.6	-42.6	370,918.97	831,874.20	32° 0' 58.580 N	103° 23' 45.366 W
2,900.0	10.00	206.43	2,891.4	-101.2	-50.3	370,903.42	831,866.47	32° 0' 58.427 N	103° 23' 45.457 W
3,000.0	10.00	206.43	2,989.9	-116.7	-58.0	370,887.87	831,858.74	32° 0' 58.274 N	103° 23' 45.548 W
3,100.0	10.00	206.43	3,088.3	-132.3	-65.8	370,872.32	831,851.01	32° 0' 58.121 N	103° 23' 45.640 W
3,200.0	10.00	206.43	3,186.8	-147.8	-73.5	370,856.77	831,843.28	32° 0' 57.967 N	103° 23' 45.731 W
3,300.0	10.00	206.43	3,285.3	-163.4	-81.2	370,841.22	831,835.55	32° 0' 57.814 N	103° 23' 45.823 W
3,400.0	10.00	206.43	3,383.8	-178.9	-88.9	370,825.67	831,827.82	32° 0' 57.661 N	103° 23' 45.914 W
3,500.0	10.00	206.43	3,482.3	-194.5	-96.7	370,810.12	831,820.09	32° 0' 57.508 N	103° 23' 46.005 W
3,600.0	10.00	206.43	3,580.8	-210.0	-104.4	370,794.57	831,812.36	32° 0' 57.355 N	103° 23' 46.097 W
3,700.0	10.00	206.43	3,679.2	-225.6	-112.1	370,779.03	831,804.63	32° 0' 57.201 N	103° 23' 46.188 W
3,800.0	10.00	206.43	3,777.7	-241.1	-119.9	370,763.48	831,796.90	32° 0' 57.048 N	103° 23' 46.279 W
3,900.0	10.00	206.43	3,876.2	-256.7	-127.6	370,747.93	831,789.17	32° 0' 56.895 N	103° 23' 46.371 W
4,000.0	10.00	206.43	3,974.7	-272.2	-135.3	370,732.38	831,781.44	32° 0' 56.742 N	103° 23' 46.462 W
4,100.0	10.00	206.43	4,073.2	-287.8	-143.1	370,716.83	831,773.71	32° 0' 56.589 N	103° 23' 46.553 W
4,200.0	10.00	206.43	4,171.6	-303.3	-150.8	370,701.28	831,765.98	32° 0' 56.435 N	103° 23' 46.645 W
4,300.0	10.00	206.43	4,270.1	-318.9	-158.5	370,685.73	831,758.25	32° 0' 56.282 N	103° 23' 46.736 W
4,400.0	10.00	206.43	4,368.6	-334.4	-166.3	370,670.18	831,750.52	32° 0' 56.129 N	103° 23' 46.827 W
4,500.0	10.00	206.43	4,467.1	-350.0	-174.0	370,654.63	831,742.79	32° 0' 55.976 N	103° 23' 46.919 W
4,600.0	10.00	206.43	4,565.6	-365.5	-181.7	370,639.08	831,735.06	32° 0' 55.823 N	103° 23' 47.010 W
4,700.0	10.00	206.43	4,664.0	-381.1	-189.4	370,623.53	831,727.33	32° 0' 55.669 N	103° 23' 47.101 W
4,800.0	10.00	206.43	4,762.5	-396.6	-197.2	370,607.98	831,719.60	32° 0' 55.516 N	103° 23' 47.193 W
4,818.8	10.00	206.43	4,781.0	-399.5	-198.6	370,605.06	831,718.14	32° 0' 55.487 N	103° 23' 47.210 W
Start Drop -2.00									
4,900.0	8.38	206.43	4,861.2	-411.1	-204.4	370,593.45	831,712.37	32° 0' 55.373 N	103° 23' 47.278 W

Permian Resources

Planning Report - Geographic

Database:	Compass	Local Co-ordinate Reference:	Well EL CAMPEON FED COM 511H
Company:	NEW MEXICO	TVD Reference:	KB @ 3200.0usft
Project:	(SP) LEA	MD Reference:	KB @ 3200.0usft
Site:	EL CAMPEON FED COM PROJECT	North Reference:	Grid
Well:	EL CAMPEON FED COM 511H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWPO		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
5,000.0	6.38	206.43	4,960.4	-422.6	-210.1	370,581.96	831,706.66	32° 0' 55.260 N	103° 23' 47.346 W	
5,100.0	4.38	206.43	5,059.9	-431.0	-214.3	370,573.57	831,702.49	32° 0' 55.177 N	103° 23' 47.395 W	
5,200.0	2.38	206.43	5,159.7	-436.3	-216.9	370,568.29	831,699.86	32° 0' 55.125 N	103° 23' 47.426 W	
5,300.0	0.38	206.43	5,259.7	-438.4	-218.0	370,566.14	831,698.80	32° 0' 55.104 N	103° 23' 47.438 W	
5,318.8	0.00	0.00	5,278.5	-438.5	-218.0	370,566.09	831,698.77	32° 0' 55.103 N	103° 23' 47.439 W	
Start 7273.0 hold at 5318.8 MD										
5,400.0	0.00	0.00	5,359.7	-438.5	-218.0	370,566.09	831,698.77	32° 0' 55.103 N	103° 23' 47.439 W	
5,500.0	0.00	0.00	5,459.7	-438.5	-218.0	370,566.09	831,698.77	32° 0' 55.103 N	103° 23' 47.439 W	
5,600.0	0.00	0.00	5,559.7	-438.5	-218.0	370,566.09	831,698.77	32° 0' 55.103 N	103° 23' 47.439 W	
5,700.0	0.00	0.00	5,659.7	-438.5	-218.0	370,566.09	831,698.77	32° 0' 55.103 N	103° 23' 47.439 W	
5,800.0	0.00	0.00	5,759.7	-438.5	-218.0	370,566.09	831,698.77	32° 0' 55.103 N	103° 23' 47.439 W	
5,900.0	0.00	0.00	5,859.7	-438.5	-218.0	370,566.09	831,698.77	32° 0' 55.103 N	103° 23' 47.439 W	
6,000.0	0.00	0.00	5,959.7	-438.5	-218.0	370,566.09	831,698.77	32° 0' 55.103 N	103° 23' 47.439 W	
6,100.0	0.00	0.00	6,059.7	-438.5	-218.0	370,566.09	831,698.77	32° 0' 55.103 N	103° 23' 47.439 W	
6,200.0	0.00	0.00	6,159.7	-438.5	-218.0	370,566.09	831,698.77	32° 0' 55.103 N	103° 23' 47.439 W	
6,300.0	0.00	0.00	6,259.7	-438.5	-218.0	370,566.09	831,698.77	32° 0' 55.103 N	103° 23' 47.439 W	
6,400.0	0.00	0.00	6,359.7	-438.5	-218.0	370,566.09	831,698.77	32° 0' 55.103 N	103° 23' 47.439 W	
6,500.0	0.00	0.00	6,459.7	-438.5	-218.0	370,566.09	831,698.77	32° 0' 55.103 N	103° 23' 47.439 W	
6,600.0	0.00	0.00	6,559.7	-438.5	-218.0	370,566.09	831,698.77	32° 0' 55.103 N	103° 23' 47.439 W	
6,700.0	0.00	0.00	6,659.7	-438.5	-218.0	370,566.09	831,698.77	32° 0' 55.103 N	103° 23' 47.439 W	
6,800.0	0.00	0.00	6,759.7	-438.5	-218.0	370,566.09	831,698.77	32° 0' 55.103 N	103° 23' 47.439 W	
6,900.0	0.00	0.00	6,859.7	-438.5	-218.0	370,566.09	831,698.77	32° 0' 55.103 N	103° 23' 47.439 W	
7,000.0	0.00	0.00	6,959.7	-438.5	-218.0	370,566.09	831,698.77	32° 0' 55.103 N	103° 23' 47.439 W	
7,100.0	0.00	0.00	7,059.7	-438.5	-218.0	370,566.09	831,698.77	32° 0' 55.103 N	103° 23' 47.439 W	
7,200.0	0.00	0.00	7,159.7	-438.5	-218.0	370,566.09	831,698.77	32° 0' 55.103 N	103° 23' 47.439 W	
7,300.0	0.00	0.00	7,259.7	-438.5	-218.0	370,566.09	831,698.77	32° 0' 55.103 N	103° 23' 47.439 W	
7,400.0	0.00	0.00	7,359.7	-438.5	-218.0	370,566.09	831,698.77	32° 0' 55.103 N	103° 23' 47.439 W	
7,500.0	0.00	0.00	7,459.7	-438.5	-218.0	370,566.09	831,698.77	32° 0' 55.103 N	103° 23' 47.439 W	
7,600.0	0.00	0.00	7,559.7	-438.5	-218.0	370,566.09	831,698.77	32° 0' 55.103 N	103° 23' 47.439 W	
7,700.0	0.00	0.00	7,659.7	-438.5	-218.0	370,566.09	831,698.77	32° 0' 55.103 N	103° 23' 47.439 W	
7,800.0	0.00	0.00	7,759.7	-438.5	-218.0	370,566.09	831,698.77	32° 0' 55.103 N	103° 23' 47.439 W	
7,900.0	0.00	0.00	7,859.7	-438.5	-218.0	370,566.09	831,698.77	32° 0' 55.103 N	103° 23' 47.439 W	
8,000.0	0.00	0.00	7,959.7	-438.5	-218.0	370,566.09	831,698.77	32° 0' 55.103 N	103° 23' 47.439 W	
8,100.0	0.00	0.00	8,059.7	-438.5	-218.0	370,566.09	831,698.77	32° 0' 55.103 N	103° 23' 47.439 W	
8,200.0	0.00	0.00	8,159.7	-438.5	-218.0	370,566.09	831,698.77	32° 0' 55.103 N	103° 23' 47.439 W	
8,300.0	0.00	0.00	8,259.7	-438.5	-218.0	370,566.09	831,698.77	32° 0' 55.103 N	103° 23' 47.439 W	
8,400.0	0.00	0.00	8,359.7	-438.5	-218.0	370,566.09	831,698.77	32° 0' 55.103 N	103° 23' 47.439 W	
8,500.0	0.00	0.00	8,459.7	-438.5	-218.0	370,566.09	831,698.77	32° 0' 55.103 N	103° 23' 47.439 W	
8,600.0	0.00	0.00	8,559.7	-438.5	-218.0	370,566.09	831,698.77	32° 0' 55.103 N	103° 23' 47.439 W	
8,700.0	0.00	0.00	8,659.7	-438.5	-218.0	370,566.09	831,698.77	32° 0' 55.103 N	103° 23' 47.439 W	
8,800.0	0.00	0.00	8,759.7	-438.5	-218.0	370,566.09	831,698.77	32° 0' 55.103 N	103° 23' 47.439 W	
8,900.0	0.00	0.00	8,859.7	-438.5	-218.0	370,566.09	831,698.77	32° 0' 55.103 N	103° 23' 47.439 W	
9,000.0	0.00	0.00	8,959.7	-438.5	-218.0	370,566.09	831,698.77	32° 0' 55.103 N	103° 23' 47.439 W	
9,100.0	0.00	0.00	9,059.7	-438.5	-218.0	370,566.09	831,698.77	32° 0' 55.103 N	103° 23' 47.439 W	
9,200.0	0.00	0.00	9,159.7	-438.5	-218.0	370,566.09	831,698.77	32° 0' 55.103 N	103° 23' 47.439 W	
9,300.0	0.00	0.00	9,259.7	-438.5	-218.0	370,566.09	831,698.77	32° 0' 55.103 N	103° 23' 47.439 W	
9,400.0	0.00	0.00	9,359.7	-438.5	-218.0	370,566.09	831,698.77	32° 0' 55.103 N	103° 23' 47.439 W	
9,500.0	0.00	0.00	9,459.7	-438.5	-218.0	370,566.09	831,698.77	32° 0' 55.103 N	103° 23' 47.439 W	
9,600.0	0.00	0.00	9,559.7	-438.5	-218.0	370,566.09	831,698.77	32° 0' 55.103 N	103° 23' 47.439 W	
9,700.0	0.00	0.00	9,659.7	-438.5	-218.0	370,566.09	831,698.77	32° 0' 55.103 N	103° 23' 47.439 W	
9,800.0	0.00	0.00	9,759.7	-438.5	-218.0	370,566.09	831,698.77	32° 0' 55.103 N	103° 23' 47.439 W	
9,900.0	0.00	0.00	9,859.7	-438.5	-218.0	370,566.09	831,698.77	32° 0' 55.103 N	103° 23' 47.439 W	
10,000.0	0.00	0.00	9,959.7	-438.5	-218.0	370,566.09	831,698.77	32° 0' 55.103 N	103° 23' 47.439 W	
10,100.0	0.00	0.00	10,059.7	-438.5	-218.0	370,566.09	831,698.77	32° 0' 55.103 N	103° 23' 47.439 W	

Permian Resources

Planning Report - Geographic

Database:	Compass	Local Co-ordinate Reference:	Well EL CAMPEON FED COM 511H
Company:	NEW MEXICO	TVD Reference:	KB @ 3200.0usft
Project:	(SP) LEA	MD Reference:	KB @ 3200.0usft
Site:	EL CAMPEON FED COM PROJECT	North Reference:	Grid
Well:	EL CAMPEON FED COM 511H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWPO		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
10,200.0	0.00	0.00	10,159.7	-438.5	-218.0	370,566.09	831,698.77	32° 0' 55.103 N	103° 23' 47.439 W
10,300.0	0.00	0.00	10,259.7	-438.5	-218.0	370,566.09	831,698.77	32° 0' 55.103 N	103° 23' 47.439 W
10,400.0	0.00	0.00	10,359.7	-438.5	-218.0	370,566.09	831,698.77	32° 0' 55.103 N	103° 23' 47.439 W
10,500.0	0.00	0.00	10,459.7	-438.5	-218.0	370,566.09	831,698.77	32° 0' 55.103 N	103° 23' 47.439 W
10,600.0	0.00	0.00	10,559.7	-438.5	-218.0	370,566.09	831,698.77	32° 0' 55.103 N	103° 23' 47.439 W
10,700.0	0.00	0.00	10,659.7	-438.5	-218.0	370,566.09	831,698.77	32° 0' 55.103 N	103° 23' 47.439 W
10,800.0	0.00	0.00	10,759.7	-438.5	-218.0	370,566.09	831,698.77	32° 0' 55.103 N	103° 23' 47.439 W
10,900.0	0.00	0.00	10,859.7	-438.5	-218.0	370,566.09	831,698.77	32° 0' 55.103 N	103° 23' 47.439 W
11,000.0	0.00	0.00	10,959.7	-438.5	-218.0	370,566.09	831,698.77	32° 0' 55.103 N	103° 23' 47.439 W
11,100.0	0.00	0.00	11,059.7	-438.5	-218.0	370,566.09	831,698.77	32° 0' 55.103 N	103° 23' 47.439 W
11,200.0	0.00	0.00	11,159.7	-438.5	-218.0	370,566.09	831,698.77	32° 0' 55.103 N	103° 23' 47.439 W
11,300.0	0.00	0.00	11,259.7	-438.5	-218.0	370,566.09	831,698.77	32° 0' 55.103 N	103° 23' 47.439 W
11,400.0	0.00	0.00	11,359.7	-438.5	-218.0	370,566.09	831,698.77	32° 0' 55.103 N	103° 23' 47.439 W
11,500.0	0.00	0.00	11,459.7	-438.5	-218.0	370,566.09	831,698.77	32° 0' 55.103 N	103° 23' 47.439 W
11,600.0	0.00	0.00	11,559.7	-438.5	-218.0	370,566.09	831,698.77	32° 0' 55.103 N	103° 23' 47.439 W
11,700.0	0.00	0.00	11,659.7	-438.5	-218.0	370,566.09	831,698.77	32° 0' 55.103 N	103° 23' 47.439 W
11,800.0	0.00	0.00	11,759.7	-438.5	-218.0	370,566.09	831,698.77	32° 0' 55.103 N	103° 23' 47.439 W
11,900.0	0.00	0.00	11,859.7	-438.5	-218.0	370,566.09	831,698.77	32° 0' 55.103 N	103° 23' 47.439 W
12,000.0	0.00	0.00	11,959.7	-438.5	-218.0	370,566.09	831,698.77	32° 0' 55.103 N	103° 23' 47.439 W
12,100.0	0.00	0.00	12,059.7	-438.5	-218.0	370,566.09	831,698.77	32° 0' 55.103 N	103° 23' 47.439 W
12,200.0	0.00	0.00	12,159.7	-438.5	-218.0	370,566.09	831,698.77	32° 0' 55.103 N	103° 23' 47.439 W
12,300.0	0.00	0.00	12,259.7	-438.5	-218.0	370,566.09	831,698.77	32° 0' 55.103 N	103° 23' 47.439 W
12,400.0	0.00	0.00	12,359.7	-438.5	-218.0	370,566.09	831,698.77	32° 0' 55.103 N	103° 23' 47.439 W
12,500.0	0.00	0.00	12,459.7	-438.5	-218.0	370,566.09	831,698.77	32° 0' 55.103 N	103° 23' 47.439 W
12,591.8	0.00	0.00	12,551.5	-438.5	-218.0	370,566.09	831,698.77	32° 0' 55.103 N	103° 23' 47.439 W
Start DLS 12.00 TFO 179.44									
12,600.0	0.98	179.44	12,559.7	-438.6	-218.0	370,566.02	831,698.77	32° 0' 55.103 N	103° 23' 47.439 W
12,625.0	3.98	179.44	12,584.7	-439.7	-218.0	370,564.93	831,698.78	32° 0' 55.092 N	103° 23' 47.439 W
12,650.0	6.98	179.44	12,609.6	-442.0	-218.0	370,562.55	831,698.80	32° 0' 55.068 N	103° 23' 47.439 W
12,675.0	9.98	179.44	12,634.3	-445.7	-217.9	370,558.86	831,698.84	32° 0' 55.032 N	103° 23' 47.439 W
12,700.0	12.98	179.44	12,658.8	-450.7	-217.9	370,553.88	831,698.89	32° 0' 54.983 N	103° 23' 47.439 W
12,725.0	15.98	179.44	12,683.0	-457.0	-217.8	370,547.63	831,698.95	32° 0' 54.921 N	103° 23' 47.439 W
12,750.0	18.98	179.44	12,706.8	-464.5	-217.7	370,540.12	831,699.02	32° 0' 54.846 N	103° 23' 47.438 W
12,775.0	21.98	179.44	12,730.2	-473.2	-217.7	370,531.37	831,699.11	32° 0' 54.760 N	103° 23' 47.438 W
12,800.0	24.98	179.44	12,753.2	-483.2	-217.6	370,521.41	831,699.21	32° 0' 54.661 N	103° 23' 47.438 W
12,825.0	27.98	179.44	12,775.5	-494.3	-217.5	370,510.26	831,699.32	32° 0' 54.551 N	103° 23' 47.438 W
12,850.0	30.98	179.44	12,797.3	-506.6	-217.3	370,497.96	831,699.44	32° 0' 54.429 N	103° 23' 47.438 W
12,875.0	33.98	179.44	12,818.4	-520.1	-217.2	370,484.54	831,699.57	32° 0' 54.296 N	103° 23' 47.438 W
12,900.0	36.98	179.44	12,838.7	-534.6	-217.1	370,470.03	831,699.71	32° 0' 54.153 N	103° 23' 47.438 W
12,925.0	39.98	179.44	12,858.3	-550.1	-216.9	370,454.47	831,699.86	32° 0' 53.999 N	103° 23' 47.437 W
12,950.0	42.98	179.44	12,877.0	-566.7	-216.7	370,437.91	831,700.02	32° 0' 53.835 N	103° 23' 47.437 W
12,975.0	45.98	179.44	12,894.9	-584.2	-216.6	370,420.40	831,700.20	32° 0' 53.662 N	103° 23' 47.437 W
13,000.0	48.98	179.44	12,911.8	-602.6	-216.4	370,401.97	831,700.38	32° 0' 53.479 N	103° 23' 47.437 W
13,025.0	51.98	179.44	12,927.7	-621.9	-216.2	370,382.69	831,700.57	32° 0' 53.289 N	103° 23' 47.436 W
13,050.0	54.98	179.44	12,942.5	-642.0	-216.0	370,362.60	831,700.76	32° 0' 53.090 N	103° 23' 47.436 W
13,075.0	57.98	179.44	12,956.3	-662.8	-215.8	370,341.76	831,700.97	32° 0' 52.884 N	103° 23' 47.436 W
13,100.0	60.98	179.44	12,969.0	-684.4	-215.6	370,320.23	831,701.18	32° 0' 52.670 N	103° 23' 47.436 W
13,125.0	63.98	179.44	12,980.6	-706.5	-215.4	370,298.06	831,701.39	32° 0' 52.451 N	103° 23' 47.435 W
13,150.0	66.98	179.44	12,991.0	-729.3	-215.2	370,275.32	831,701.62	32° 0' 52.226 N	103° 23' 47.435 W
13,175.0	69.98	179.44	13,000.1	-752.5	-214.9	370,252.06	831,701.85	32° 0' 51.996 N	103° 23' 47.435 W
13,200.0	72.98	179.44	13,008.1	-776.2	-214.7	370,228.36	831,702.08	32° 0' 51.761 N	103° 23' 47.434 W
13,225.0	75.98	179.44	13,014.8	-800.3	-214.5	370,204.28	831,702.31	32° 0' 51.523 N	103° 23' 47.434 W
13,250.0	78.98	179.44	13,020.2	-824.7	-214.2	370,179.87	831,702.55	32° 0' 51.282 N	103° 23' 47.434 W
13,275.0	81.98	179.44	13,024.3	-849.4	-214.0	370,155.22	831,702.79	32° 0' 51.038 N	103° 23' 47.433 W

Permian Resources

Planning Report - Geographic

Database:	Compass	Local Co-ordinate Reference:	Well EL CAMPEON FED COM 511H
Company:	NEW MEXICO	TVD Reference:	KB @ 3200.0usft
Project:	(SP) LEA	MD Reference:	KB @ 3200.0usft
Site:	EL CAMPEON FED COM PROJECT	North Reference:	Grid
Well:	EL CAMPEON FED COM 511H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWPO		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
13,300.0	84.98	179.44	13,027.1	-874.2	-213.7	370,130.39	831,703.04	32° 0' 50.792 N	103° 23' 47.433 W	
13,325.0	87.98	179.44	13,028.7	-899.1	-213.5	370,105.44	831,703.28	32° 0' 50.545 N	103° 23' 47.433 W	
13,341.8	90.00	179.44	13,029.0	-915.9	-213.3	370,088.65	831,703.45	32° 0' 50.379 N	103° 23' 47.433 W	
Start 4984.9 hold at 13341.8 MD										
13,400.0	90.00	179.44	13,029.0	-974.1	-212.8	370,030.45	831,704.02	32° 0' 49.803 N	103° 23' 47.432 W	
13,500.0	90.00	179.44	13,029.0	-1,074.1	-211.8	369,930.45	831,705.00	32° 0' 48.813 N	103° 23' 47.430 W	
13,600.0	90.00	179.44	13,029.0	-1,174.1	-210.8	369,830.46	831,705.98	32° 0' 47.824 N	103° 23' 47.429 W	
13,700.0	90.00	179.44	13,029.0	-1,274.1	-209.8	369,730.46	831,706.96	32° 0' 46.834 N	103° 23' 47.428 W	
13,800.0	90.00	179.44	13,029.0	-1,374.1	-208.8	369,630.47	831,707.94	32° 0' 45.845 N	103° 23' 47.426 W	
13,900.0	90.00	179.44	13,029.0	-1,474.1	-207.9	369,530.47	831,708.92	32° 0' 44.855 N	103° 23' 47.425 W	
14,000.0	90.00	179.44	13,029.0	-1,574.1	-206.9	369,430.47	831,709.90	32° 0' 43.866 N	103° 23' 47.424 W	
14,100.0	90.00	179.44	13,029.0	-1,674.1	-205.9	369,330.48	831,710.88	32° 0' 42.876 N	103° 23' 47.423 W	
14,200.0	90.00	179.44	13,029.0	-1,774.1	-204.9	369,230.48	831,711.86	32° 0' 41.886 N	103° 23' 47.421 W	
14,300.0	90.00	179.44	13,029.0	-1,874.1	-203.9	369,130.49	831,712.84	32° 0' 40.897 N	103° 23' 47.420 W	
14,400.0	90.00	179.44	13,029.0	-1,974.1	-203.0	369,030.49	831,713.82	32° 0' 39.907 N	103° 23' 47.419 W	
14,500.0	90.00	179.44	13,029.0	-2,074.1	-202.0	368,930.50	831,714.79	32° 0' 38.918 N	103° 23' 47.417 W	
14,600.0	90.00	179.44	13,029.0	-2,174.1	-201.0	368,830.50	831,715.77	32° 0' 37.928 N	103° 23' 47.416 W	
14,700.0	90.00	179.44	13,029.0	-2,274.1	-200.0	368,730.51	831,716.75	32° 0' 36.939 N	103° 23' 47.415 W	
14,800.0	90.00	179.44	13,029.0	-2,374.1	-199.0	368,630.51	831,717.73	32° 0' 35.949 N	103° 23' 47.413 W	
14,900.0	90.00	179.44	13,029.0	-2,474.1	-198.1	368,530.52	831,718.71	32° 0' 34.960 N	103° 23' 47.412 W	
15,000.0	90.00	179.44	13,029.0	-2,574.1	-197.1	368,430.52	831,719.69	32° 0' 33.970 N	103° 23' 47.411 W	
15,100.0	90.00	179.44	13,029.0	-2,674.1	-196.1	368,330.53	831,720.67	32° 0' 32.981 N	103° 23' 47.409 W	
15,200.0	90.00	179.44	13,029.0	-2,774.1	-195.1	368,230.53	831,721.65	32° 0' 31.991 N	103° 23' 47.408 W	
15,300.0	90.00	179.44	13,029.0	-2,874.1	-194.1	368,130.54	831,722.63	32° 0' 31.001 N	103° 23' 47.407 W	
15,400.0	90.00	179.44	13,029.0	-2,974.0	-193.2	368,030.54	831,723.61	32° 0' 30.012 N	103° 23' 47.405 W	
15,500.0	90.00	179.44	13,029.0	-3,074.0	-192.2	367,930.55	831,724.59	32° 0' 29.022 N	103° 23' 47.404 W	
15,600.0	90.00	179.44	13,029.0	-3,174.0	-191.2	367,830.55	831,725.57	32° 0' 28.033 N	103° 23' 47.403 W	
15,700.0	90.00	179.44	13,029.0	-3,274.0	-190.2	367,730.56	831,726.55	32° 0' 27.043 N	103° 23' 47.402 W	
15,800.0	90.00	179.44	13,029.0	-3,374.0	-189.2	367,630.56	831,727.53	32° 0' 26.054 N	103° 23' 47.400 W	
15,900.0	90.00	179.44	13,029.0	-3,474.0	-188.3	367,530.57	831,728.51	32° 0' 25.064 N	103° 23' 47.399 W	
16,000.0	90.00	179.44	13,029.0	-3,574.0	-187.3	367,430.57	831,729.49	32° 0' 24.075 N	103° 23' 47.398 W	
16,100.0	90.00	179.44	13,029.0	-3,674.0	-186.3	367,330.58	831,730.47	32° 0' 23.085 N	103° 23' 47.396 W	
16,200.0	90.00	179.44	13,029.0	-3,774.0	-185.3	367,230.58	831,731.45	32° 0' 22.096 N	103° 23' 47.395 W	
16,300.0	90.00	179.44	13,029.0	-3,874.0	-184.3	367,130.59	831,732.43	32° 0' 21.106 N	103° 23' 47.394 W	
16,400.0	90.00	179.44	13,029.0	-3,974.0	-183.4	367,030.59	831,733.41	32° 0' 20.117 N	103° 23' 47.392 W	
16,500.0	90.00	179.44	13,029.0	-4,074.0	-182.4	366,930.59	831,734.39	32° 0' 19.127 N	103° 23' 47.391 W	
16,600.0	90.00	179.44	13,029.0	-4,174.0	-181.4	366,830.60	831,735.37	32° 0' 18.137 N	103° 23' 47.390 W	
16,700.0	90.00	179.44	13,029.0	-4,274.0	-180.4	366,730.60	831,736.35	32° 0' 17.148 N	103° 23' 47.388 W	
16,800.0	90.00	179.44	13,029.0	-4,374.0	-179.4	366,630.61	831,737.33	32° 0' 16.158 N	103° 23' 47.387 W	
16,900.0	90.00	179.44	13,029.0	-4,474.0	-178.5	366,530.61	831,738.31	32° 0' 15.169 N	103° 23' 47.386 W	
17,000.0	90.00	179.44	13,029.0	-4,574.0	-177.5	366,430.62	831,739.29	32° 0' 14.179 N	103° 23' 47.384 W	
17,100.0	90.00	179.44	13,029.0	-4,674.0	-176.5	366,330.62	831,740.27	32° 0' 13.190 N	103° 23' 47.383 W	
17,200.0	90.00	179.44	13,029.0	-4,774.0	-175.5	366,230.63	831,741.25	32° 0' 12.200 N	103° 23' 47.382 W	
17,300.0	90.00	179.44	13,029.0	-4,874.0	-174.5	366,130.63	831,742.23	32° 0' 11.211 N	103° 23' 47.381 W	
17,400.0	90.00	179.44	13,029.0	-4,974.0	-173.6	366,030.64	831,743.21	32° 0' 10.221 N	103° 23' 47.379 W	
17,500.0	90.00	179.44	13,029.0	-5,073.9	-172.6	365,930.64	831,744.19	32° 0' 9.232 N	103° 23' 47.378 W	
17,600.0	90.00	179.44	13,029.0	-5,173.9	-171.6	365,830.65	831,745.17	32° 0' 8.242 N	103° 23' 47.377 W	
17,700.0	90.00	179.44	13,029.0	-5,273.9	-170.6	365,730.65	831,746.15	32° 0' 7.252 N	103° 23' 47.375 W	
17,800.0	90.00	179.44	13,029.0	-5,373.9	-169.6	365,630.66	831,747.13	32° 0' 6.263 N	103° 23' 47.374 W	
17,900.0	90.00	179.44	13,029.0	-5,473.9	-168.7	365,530.66	831,748.11	32° 0' 5.273 N	103° 23' 47.373 W	
18,000.0	90.00	179.44	13,029.0	-5,573.9	-167.7	365,430.67	831,749.09	32° 0' 4.284 N	103° 23' 47.371 W	
18,100.0	90.00	179.44	13,029.0	-5,673.9	-166.7	365,330.67	831,750.07	32° 0' 3.294 N	103° 23' 47.370 W	
18,200.0	90.00	179.44	13,029.0	-5,773.9	-165.7	365,230.68	831,751.05	32° 0' 2.305 N	103° 23' 47.369 W	
18,300.0	90.00	179.44	13,029.0	-5,873.9	-164.7	365,130.68	831,752.03	32° 0' 1.315 N	103° 23' 47.367 W	

Permian Resources

Planning Report - Geographic

Database:	Compass	Local Co-ordinate Reference:	Well EL CAMPEON FED COM 511H
Company:	NEW MEXICO	TVD Reference:	KB @ 3200.0usft
Project:	(SP) LEA	MD Reference:	KB @ 3200.0usft
Site:	EL CAMPEON FED COM PROJECT	North Reference:	Grid
Well:	EL CAMPEON FED COM 511H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
18,326.7	90.00	179.44	13,029.0	-5,900.6	-164.5	365,104.01	831,752.29	32° 0' 1.051 N	103° 23' 47.367 W	
Start DLS 2.00 TFO -88.35										
18,327.4	90.00	179.42	13,029.0	-5,901.3	-164.5	365,103.31	831,752.30	32° 0' 1.044 N	103° 23' 47.367 W	
Start 2911.9 hold at 18327.4 MD										
18,400.0	90.00	179.42	13,029.0	-5,973.9	-163.7	365,030.69	831,753.02	32° 0' 0.326 N	103° 23' 47.366 W	
18,500.0	90.00	179.42	13,029.0	-6,073.9	-162.7	364,930.69	831,754.03	31° 59' 59.336 N	103° 23' 47.364 W	
18,600.0	90.00	179.42	13,029.0	-6,173.9	-161.7	364,830.70	831,755.03	31° 59' 58.347 N	103° 23' 47.363 W	
18,700.0	90.00	179.42	13,029.0	-6,273.9	-160.7	364,730.70	831,756.04	31° 59' 57.357 N	103° 23' 47.361 W	
18,800.0	90.00	179.42	13,029.0	-6,373.9	-159.7	364,630.71	831,757.04	31° 59' 56.367 N	103° 23' 47.359 W	
18,900.0	90.00	179.42	13,029.0	-6,473.9	-158.7	364,530.71	831,758.05	31° 59' 55.378 N	103° 23' 47.358 W	
19,000.0	90.00	179.42	13,029.0	-6,573.9	-157.7	364,430.72	831,759.05	31° 59' 54.388 N	103° 23' 47.356 W	
19,100.0	90.00	179.42	13,029.0	-6,673.9	-156.7	364,330.72	831,760.05	31° 59' 53.399 N	103° 23' 47.355 W	
19,200.0	90.00	179.42	13,029.0	-6,773.9	-155.7	364,230.73	831,761.06	31° 59' 52.409 N	103° 23' 47.353 W	
19,300.0	90.00	179.42	13,029.0	-6,873.9	-154.7	364,130.73	831,762.06	31° 59' 51.420 N	103° 23' 47.351 W	
19,400.0	90.00	179.42	13,029.0	-6,973.9	-153.7	364,030.74	831,763.07	31° 59' 50.430 N	103° 23' 47.350 W	
19,500.0	90.00	179.42	13,029.0	-7,073.8	-152.7	363,930.74	831,764.07	31° 59' 49.441 N	103° 23' 47.348 W	
19,600.0	90.00	179.42	13,029.0	-7,173.8	-151.7	363,830.75	831,765.08	31° 59' 48.451 N	103° 23' 47.347 W	
19,700.0	90.00	179.42	13,029.0	-7,273.8	-150.7	363,730.75	831,766.08	31° 59' 47.462 N	103° 23' 47.345 W	
19,800.0	90.00	179.42	13,029.0	-7,373.8	-149.7	363,630.76	831,767.08	31° 59' 46.472 N	103° 23' 47.343 W	
19,900.0	90.00	179.42	13,029.0	-7,473.8	-148.7	363,530.76	831,768.09	31° 59' 45.482 N	103° 23' 47.342 W	
20,000.0	90.00	179.42	13,029.0	-7,573.8	-147.7	363,430.77	831,769.09	31° 59' 44.493 N	103° 23' 47.340 W	
20,100.0	90.00	179.42	13,029.0	-7,673.8	-146.7	363,330.77	831,770.10	31° 59' 43.503 N	103° 23' 47.339 W	
20,200.0	90.00	179.42	13,029.0	-7,773.8	-145.7	363,230.78	831,771.10	31° 59' 42.514 N	103° 23' 47.337 W	
20,300.0	90.00	179.42	13,029.0	-7,873.8	-144.7	363,130.78	831,772.11	31° 59' 41.524 N	103° 23' 47.335 W	
20,400.0	90.00	179.42	13,029.0	-7,973.8	-143.7	363,030.79	831,773.11	31° 59' 40.535 N	103° 23' 47.334 W	
20,500.0	90.00	179.42	13,029.0	-8,073.8	-142.7	362,930.79	831,774.11	31° 59' 39.545 N	103° 23' 47.332 W	
20,600.0	90.00	179.42	13,029.0	-8,173.8	-141.7	362,830.80	831,775.12	31° 59' 38.556 N	103° 23' 47.331 W	
20,700.0	90.00	179.42	13,029.0	-8,273.8	-140.6	362,730.80	831,776.12	31° 59' 37.566 N	103° 23' 47.329 W	
20,800.0	90.00	179.42	13,029.0	-8,373.8	-139.6	362,630.81	831,777.13	31° 59' 36.577 N	103° 23' 47.327 W	
20,900.0	90.00	179.42	13,029.0	-8,473.8	-138.6	362,530.81	831,778.13	31° 59' 35.587 N	103° 23' 47.326 W	
21,000.0	90.00	179.42	13,029.0	-8,573.8	-137.6	362,430.82	831,779.14	31° 59' 34.597 N	103° 23' 47.324 W	
21,100.0	90.00	179.42	13,029.0	-8,673.8	-136.6	362,330.82	831,780.14	31° 59' 33.608 N	103° 23' 47.323 W	
21,200.0	90.00	179.42	13,029.0	-8,773.8	-135.6	362,230.83	831,781.14	31° 59' 32.618 N	103° 23' 47.321 W	
21,239.3	90.00	179.42	13,029.0	-8,813.0	-135.2	362,191.55	831,781.54	31° 59' 32.230 N	103° 23' 47.320 W	
TD at 21239.3										

Planning Report - Geographic

Database:	Compass	Local Co-ordinate Reference:	Well EL CAMPEON FED COM 511H
Company:	NEW MEXICO	TVD Reference:	KB @ 3200.0usft
Project:	(SP) LEA	MD Reference:	KB @ 3200.0usft
Site:	EL CAMPEON FED COM PROJECT	North Reference:	Grid
Well:	EL CAMPEON FED COM 511H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target - Shape									
LTP-EL CAMPEON FI - plan hits target center - Point	0.00	0.00	13,029.0	-8,760.0	-135.8	362,244.58	831,781.01	31° 59' 32.754 N	103° 23' 47.321 W
SLC-EL CAMPEON F - plan hits target center - Point	0.00	0.00	13,029.0	-5,900.6	-164.5	365,104.01	831,752.29	32° 0' 1.051 N	103° 23' 47.367 W
FTP-EL CAMPEON F - plan misses target center by 0.1usft at 13341.6usft MD (13029.0 TVD, -915.8 N, -213.3 E) - Point	0.00	0.00	13,029.0	-915.7	-213.3	370,088.84	831,703.51	32° 0' 50.381 N	103° 23' 47.432 W
BHL-EL CAMPEON F - plan hits target center - Point	0.00	0.00	13,029.0	-8,813.0	-135.2	362,191.55	831,781.54	31° 59' 32.230 N	103° 23' 47.320 W

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
2,000.0	2,000.0	0.0	0.0	Start Build 2.00
2,500.0	2,497.5	-39.0	-19.4	Start 2318.8 hold at 2500.0 MD
4,818.8	4,781.0	-399.5	-198.6	Start Drop -2.00
5,318.8	5,278.5	-438.5	-218.0	Start 7273.0 hold at 5318.8 MD
12,591.8	12,551.5	-438.5	-218.0	Start DLS 12.00 TFO 179.44
13,341.8	13,029.0	-915.9	-213.3	Start 4984.9 hold at 13341.8 MD
18,326.7	13,029.0	-5,900.6	-164.5	Start DLS 2.00 TFO -88.35
18,327.4	13,029.0	-5,901.3	-164.5	Start 2911.9 hold at 18327.4 MD
21,239.3	13,029.0	-8,813.0	-135.2	TD at 21239.3

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	Earthstone
LEASE NO.:	NMNM139373
LOCATION:	Section 29, T.26 S, R.35 E., NMPM
COUNTY:	Lea County, New Mexico
WELL NAME & NO.:	El Campeon Fed Com 511H
SURFACE HOLE FOOTAGE:	1828'/N & 692'/W
BOTTOM HOLE FOOTAGE:	0'/S & 660'/W

*Previously known as **EL Campeon South Fed Com 111H**. Changes approved through engineering via **Sundry2766671** on **1-25-2024**. Any previous COAs not addressed within the updated COAs still apply.*

COA

H₂S	☐ Yes	☒ No		
Potash / WIPP	☒ None	☐ Secretary	☐ R-111-P	☐ WIPP
Cave / Karst	☒ Low	☐ Medium	☐ High	☐ Critical
Wellhead	☐ Conventional	☒ Multibowl	☐ Both	☐ Diverter
Cementing	☐ Primary Squeeze	☐ Cont. Squeeze	☐ EchoMeter	☐ DV Tool
Special Req	☐ Break Testing	☐ Water Disposal	☒ COM	☐ Unit
Variance	☒ Flex Hose	☐ Casing Clearance	☐ Pilot Hole	☐ Capitan Reef
Variance	☐ Four-String	☒ Offline Cementing	☐ Fluid-Filled	☐ Open Annulus
☐ Batch APD / Sundry				

A. HYDROGEN SULFIDE

Hydrogen Sulfide (H₂S) monitors shall be installed prior to drilling out the surface shoe. If H₂S is detected in concentrations greater than 100 ppm, the Hydrogen Sulfide area must meet all requirements from **43 CFR 3176**, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, provide measured values and formations to the BLM.

B. CASING

1. The **9-5/8** inch surface casing shall be set at approximately **1100** feet (a minimum of **25 feet (Lea County)** into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.

- b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8 hours** or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
 - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
 - d. If cement falls back, remedial cementing will be done prior to drilling out that string.
2. The minimum required fill of cement behind the 7-5/8 inch intermediate casing is:
 - Cement to surface. If cement does not circulate see B.1.a, c-d above.

Wait on cement (WOC) time for a primary cement job is to include the tail cement slurry due to cave/karst.
3. The minimum required fill of cement behind the 5-1/2 inch production casing is:
 - Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.

C. PRESSURE CONTROL

1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).
2. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **10,000 (10M) psi. Variance is approved to use a 5000 (5M) Annular which shall be tested to 5000 (5M) psi.**
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
 - e. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172 must be followed.

D. SPECIAL REQUIREMENT (S)**Communitization Agreement**

- The operator will submit a Communitization Agreement to the Santa Fe Office, 301 Dinosaur Trail Santa Fe, New Mexico 87508, at least 90 days before the anticipated date of first production from a well subject to a spacing order issued by the New Mexico Oil Conservation Division. The Communitization Agreement will include the signatures of all working interest owners in all Federal and Indian leases subject to the Communitization Agreement (i.e., operating rights owners and lessees of record), or certification that the operator has obtained the written signatures of all such owners and will make those signatures available to the BLM immediately upon request.
- The operator will submit an as-drilled survey well plat of the well completion, but are not limited to, those specified in 43 CFR 3171 and 3172.
- If the operator does not comply with this condition of approval, the BLM may take enforcement actions that include, but are not limited to, those specified in 43 CFR 3163.1.
- In addition, the well sign shall include the surface and bottom hole lease numbers. When the Communitization Agreement number is known, it shall also be on the sign.

Offline Cementing

Contact the BLM prior to the commencement of any offline cementing procedure.

GENERAL REQUIREMENTS

The BLM is to be notified in advance for a representative to witness:

- a. Spudding well (minimum of 24 hours)
- b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
- c. BOPE tests (minimum of 4 hours)

☒ Eddy County

Email **or** call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, BLM_NM_CFO_DrillingNotifications@BLM.GOV
(575) 361-2822

☒ Lea County

Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240,
(575) 689-5981

1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.

- a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
- b. When the operator proposes to set surface casing with Spudder Rig
 - Notify the BLM when moving in and removing the Spudder Rig.
 - Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
 - BOP/BOPE test to be conducted per **43 CFR part 3170 Subpart 3172** as soon as 2nd Rig is rigged up on well.
2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.
3. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well – vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

A. CASING

1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.
2. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends, 2) until cement has been in place at least 24 hours. WOC time will be recorded in the driller's log. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours.

WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.

4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
8. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.

B. PRESSURE CONTROL

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in **43 CFR part 3170 Subpart 3172** and **API STD 53 Sec. 5.3**.
2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.
3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.

4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. Whenever any seal subject to test pressure is broken, all the tests in **43 CFR part 3170 Subpart 3172** must be followed.
 - e. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
 - b. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the cement plug.
 - c. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer and can be initiated immediately with the valve on casing head below test plug open. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to **43 CFR part 3170 Subpart 3172** with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for water basin (8 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
 - d. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a

maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.

- e. The results of the test shall be reported to the appropriate BLM office.
- f. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
- g. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
- h. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per **43 CFR part 3170 Subpart 3172**.

C. DRILLING MUD

Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be operating before drilling into the Wolfcamp formation, and shall be used until production casing is run and cemented.

D. WASTE MATERIAL AND FLUIDS

All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area.

Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

ZS 1/25/2024

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 309921

CONDITIONS

Operator: Earthstone Operating, LLC 300 N. Marienfeld St Ste 1000 Midland, TX 79701	OGRID: 331165
	Action Number: 309921
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
pkautz	None	3/13/2024