Form 3160-5. (June 2015)

# UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB NO. 1004-0137
Expires: January 31, 2013

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.				5. Lease Serial No. NMNM117120		
				6. If Indian, Allottee o	or Tribe Name	
SUBMIT IN TRIPLICATE - Other instructions on page 2				7. If Unit or CA/Agreement, Name and/or No.		
Type of Well     Gas Well □ Oth	ner			.'	8. Well Name and No. OXBOW CC 17-8	FEDERAL COM 35H
2. Name of Operator OXY USA INCORPORATED		SARAH E CH HAPMAN@OX			9. API Well No. 30-015-45087-0	00-X1
3a. Address 5 GREENWAY PLAZA SUITE HOUSTON, TX 77046-0521	110	3b. Phone No Ph: 713-35	(include area code) 0-4997		10. Field and Pool or I PURPLE SAGE	Exploratory Area -WOLFCAMP (GAS)
4. Location of Well (Footage, Sec., T	., R., M., or Survey Description	)	<del></del>		11. County or Parish,	State
Sec 17 T24S R29E SESE 601 32.211937 N Lat, 104.001968					EDDY COUNTY	/, NM
12. CHECK THE AI	PPROPRIATE BOX(ES)	TO INDICA	TE NATURE O	F NOTICE,	REPORT, OR OTH	HER DATA
TYPE OF SUBMISSION			ТҮРЕ ОР	ACTION		
Notice of Intent   ■ Notice of Intent	☐ Acidize	□ Dee	pen	☐ Product	tion (Start/Resume)	■ Water Shut-Off
	☐ Alter Casing	🗖 Hyd	raulic Fracturing	☐ Reclam	ation	Well Integrity
☐ Subsequent Report	□ Casing Repair	■ New	Construction	Recomp	plete	<b>⊠</b> Other
☐ Final Abandonment Notice	☐ Change Plans	Plug	and Abandon	Tempo	rarily Abandon	Change to Original A PD
	□ Convert to Injection	☐ Plug	Back	□ Water I	Disposal	
If the proposal is to deepen directions Attach the Bond under which the wor following completion of the involved testing has been completed. Final Attachment that the site is ready for from the complete of the involved testing has been completed. Final Attachment that the site is ready for from the complete of the co	rk will be performed or provide operations. If the operation repandonment Notices must be fil inal inspection.  Quests to amend the original urple Sage Wolfcamp, mend apply FEL graph of the provided provided the provided provide	the Bond No. or sults in a multipled only after all nal APD with a poving to Piero mes, offline co	n file with BLM/BIA e completion or recorrequirements, includ the following chase Crossing Bone ementing, etc.	Required sumpletion in a ing reclamation inges: Spring	bsequent reports must be new interval, a Form 316 in, have been completed a	filed within 30 days 0-4 must be filed once and the operator has GENED  2 4 2019  I-ARTESIAO.C.D.  Office
14. I hereby certify that the foregoing is	Electronic Submission #	A INCORPOR <i>A</i>	TED. sent to the	Carlsbad		
Name (Printed/Typed) SARAH E	CHAPMAN		Title REGUL	ATORY SP	ECIALIST	
Signature (Electronic S	Submission)		Date 06/12/2	019		
	THIS SPACE FO	OR FEDERA	L OR STATE	OFFICE U	SE	
Approved By NDUNGU KAMAU  Conditions of approval, if any, are attache certify that the applicant holds legal or equivilent would entitle the applicant to conduct the second conduction of the secon	aitable title to those rights in the		TitlePETROLE Office Carlsbac	`	EER	Date 07/11/2019
Title 18 U.S.C. Section 1001 and Title 43 States any false fictitions or fraudulent	U.S.C. Section 1212, make it a	crime for any pe	erson knowingly and		ake to any department or	agency of the United

(Instructions on page 2) \*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\*

Rul 10-29-19

### Revisions to Operator-Submitted EC Data for Sundry Notice #468810

**Operator Submitted** 

**BLM Revised (AFMSS)** 

Sundry Type:

APDCH

NOI

Lease:

NMNM117120

**APDCH** NOI

NMNM117120

Agreement:

Operator:

OXY USA INC. P.O. BOX 4294 HOUSTON, TX 77210 Ph: 713-350-4997

OXY USA INCORPORATED 5 GREENWAY PLAZA SUITE 110 HOUSTON, TX 77046-0521

Ph: 713.350.4816

Admin Contact:

SARAH E CHAPMAN

E-Mail: SARAH CHAPMAN@OXY.COM Cell: 281-642-5503 Ph: 713-350-4997

SARAH E CHAPMAN REGULATORY SPECIALIST E-Mail: SARAH\_CHAPMAN@OXY.COM Cell: 281-642-5503 Ph: 713-350-4997

Tech Contact:

SARAH E CHAPMAN REGULATORY SPECIALIST E-Mail: SARAH\_CHAPMAN@OXY.COM Cell: 281-642-5503 Ph: 713-350-4997

SARAH E CHAPMAN REGULATORY SPECIALIST E-Mail: SARAH\_CHAPMAN@OXY.COM Cell: 281-642-5503 Ph: 713-350-4997

Location:

State: County: NM EDDY

NM **EDDY** 

Field/Pool:

PURPLE SAGE WOLFCAMP

PURPLE SAGE-WOLFCAMP (GAS)

Well/Facility:

OXBOW CC 17-8 FEDERAL COM 35H Sec 17 T24S R29E Mer NMP SESE 601FSL 1236FEL 32.211936 N Lat, 104.001965 W Lon

OXBOW CC 17-8 FEDERAL COM 35H Sec 17 T24S R29E SESE 601FSL 1236FEL 32.211937 N Lat, 104.001968 W Lon

# PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

**OPERATOR'S NAME:** OXY USA INC.

**LEASE NO.:** NMNM 117120

WELL NAME & NO.: | 35H-OXBOW CC 17-08 FED COM

**SURFACE HOLE FOOTAGE**: 601'/S & 1236'/E **BOTTOM HOLE FOOTAGE** 20'/N & 990'/E

**LOCATION:** T-24S, R-29E, S-17. NMPM

COUNTY: | EDDY, NM

COA

H2S	Yes	€ No	
Potash	• None	○ Secretary	↑ R-111-P
Cave/Karst Potential	Low	• Medium	High
Variance	None	Flex Hose	Other
Wellhead	Conventional	^ Multibowl	• Both
Other	☐ 4 String Area	Capitan Reef	☐ WIPP
Other	Fluid Filled	Cement Squeeze	☐ Pilot Hole
Special Requirements	☐ Water Disposal	₩ COM	☐ Unit

### ALL PREVIOUS COAs STILL APPLY

### 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 shall meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, provide measured values and formations to the BLM.

### **B. CASING**

### Casing Design:

- 1. The 10-3/4 inch surface casing shall be set at approximately 400 feet (a minimum of 70 feet (Eddy County) into the Rustler Anhydrite and above the salt) 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.

Intermediate casing must be kept fluid filled to meet BLM minimum collapse requirement.

2. The minimum required fill of cement behind the 7-5/8 inch intermediate casing is:

### **Option 1 (Single Stage):**

• 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 lead cement slurry due to cave/karst or potash.

### Option 2:

Operator has proposed a DV tool, the depth may be adjusted as long as the cement is changed proportionally. The DV tool may be cancelled if cement circulates to surface on the first stage.

- a. First stage to DV tool: Cement to circulate. If cement does not circulate off the DV tool, contact the appropriate BLM office before proceeding with second stage cement job.
- b. Second stage above DV tool:
  - Cement to surface. If cement does not circulate, contact the appropriate BLM office.
     Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.
- ❖ In Medium Cave/Karst Areas if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.

Operator has proposed to pump down 9-5/8" X 7-5/8" annulus. Operator must run a CBL from TD of the 7-5/8" casing to surface. Submit results to BLM. Excess calculates to 7% - additional cement might be required.

3. The minimum required fill of cement behind the 5-1/2 inch production casing is:

### **Option 1 (Single Stage):**

Cement should tie-back at least 200 feet into previous casing string.
 Operator shall provide method of verification. Excess calculates to 19% - additional cement might be required.

### **Option 2:**

Operator has proposed a DV tool, the depth may be adjusted as long as the cement is changed proportionally. The DV tool may be cancelled if cement circulates to surface on the first stage.

- a. First stage to DV tool: Cement to circulate. If cement does not circulate off the DV tool, contact the appropriate BLM office before proceeding with second stage cement job.
- b. Second stage above DV tool:
  - 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.

### **Option 1:**

- a. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be 3000 (3M) psi.
- b. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the intermediate casing shoe shall be **5000 (5M)** psi.

### Option 2:

1. 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 **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 OOGO2.III.A.2.i must be followed.

### D. SPECIAL REQUIREMENT (S)

### **BOP Break Testing Variance**

- While in transfer between wells, the BOPE shall be secured by the hydraulic carrier or cradle.
- Any well control event while drilling require notification to the BLM Petroleum Engineer prior to the commencement of any BOP Break Testing operations.
- A full BOP test is required prior to drilling the first deep intermediate hole section. If any subsequent hole interval is deeper than the first, a full BOP test will be required.

### **Offline Cementing**

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

### **Communitization Agreement**

- The operator will submit a Communitization Agreement to the Carlsbad Field Office, 620 E Greene St. Carlsbad, New Mexico 88220, 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.
- 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.

### **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)
  - Chaves and Roosevelt Counties
    Call the Roswell Field Office, 2909 West Second St., Roswell NM 88201.
    During office hours call (575) 627-0272.
    After office hours call (575)
  - Eddy County
     Call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, (575) 361-2822
  - ✓ Lea CountyCall the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575)393-3612
- 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 2<sup>nd</sup> 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 Onshore Oil and Gas Order No. 2 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.
- 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.
- 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 Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.
- 2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: 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 OOGO2.III.A.2.i 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. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead when specified), whichever is greater. 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 plug. However, **no tests** shall commence until the cement has had a minimum of 24 hours setup time.
- c. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to Onshore Order 2 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 Onshore Order No. 2.

### 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.

NMK07122019

District 1
[623 N. Franch Dr., Hobbs, N.M. 88240
Phones: (573) 393-6161 Fax: (573) 393-6720
District II.
\$11 S. Frant St., Artesia, N.M. 88210
Phones: (573) 748-1283 Fax: (575) 748-9720
District III.
1000 Rio Thrans Road, Astec, N.M. 87410
Phones: (593) 343-6178 Fax: (593) 334-6170
District IV.
1220 S. St. Francis Dr., Sants Fa, N.M. 87505
Phones: (503) 478-3440 Fax: (503) 478-3442

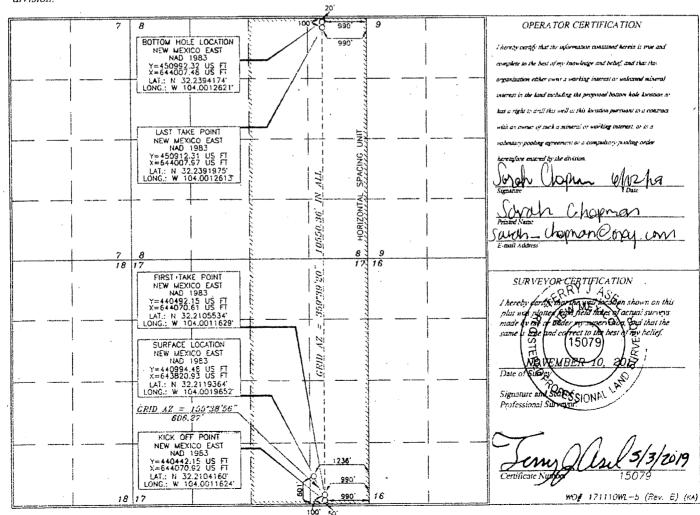
# State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 87505

Form C-102 Revised August 1, 2011 Submit one copy to appropriate District Office

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT Pool Code API Number 50371 30-015-45087 Well Number Property Name Property Code 35H OXBOW CC "17-8" FEDERAL COM OGRID No. Operator Name Elevation 2926.5 16696 OXY USA INC. Surface Location East/West line County Range Feet from the UL or lot no. Section Township Let Idn Feet from the North/South line 24 SOUTH 29 EAST. N.M.P.M. SOUTH 1236 EAST **EDDY** 17 Bottom Hole Location If Different From Surface UL or lot no. Section Township Lot Idn Feet from the North/South line | Feet from the East/West line County EDDY 24 SOUTH 29 EAST, N. M. P. M. 20 NORTH 990' EAST Consolidation Code Order No Dedicated Acres Joint of Infill 1040

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



Intent \( \frac{1}{4} \) As Drilled \( \begin{array}{c} API # \end{array}					
30 - 015 - 45097 Operator Name:		Property Name:			Well Number
OXY USA Inc.		OXBOW CC	17-8 Feder	4 com	3574
					į.
Kick Off Point (KOP)					
UL Section Township Range V 17 245 296 Latitude	Lot Feet 50	south ,	Feet From 190 lo	n E/W County of EDD NAD	<u>J</u>
32.2104160	1	1.0011624		NAD NAH)	
First Take Point (FTP)		·			
UL Section Township Range 245 296	Lot Feet	1 1 1	Feet From	EDU	
Latitude	Longitu	ıde		NAD ~	,
32.2105514	-104	.0011629		NADE	3
Last Take Point (LTP)					. <i>'</i>
A 8 245 295	Lot Feet	From N/S Feet NOVAN 990	From E/W	ENDY NAD	
Latitude 32. 239 1775	Longitu ( 0 4	t.0012613		HAD 83	
	1				
Is this well the defining well for the	Horizontal Sp	pacing Unit?			
Is this well an infill well?					
If infill is yes please provide API if av Spacing Unit.	/ailable, Oper	rator Name and we	ell number for I	Defining well fo	r Horizontal
API#					
Operator Name:		Property Name:			Well Number
	<u>,</u>	L			KZ 06/29/2018

### PERFORMANCE DATA

TMK UP TORQ™ DQW Technical Data Sheet

5.500 in

20.00 lbs/ft

P110 CY

Tubular Parameters		
Size	5.500	in ·
Nominal Weight	20.00	lbs/ft
Grade	P110 CY	
PE Weight	19.81	lbs/ft
Wall Thickness	0.361	in .
Nominal ID	4.778	in

4.653

5.828

in in²

Minimum Yield	110,000	psi
Minimum Tensile	125,000	psi
Yield Load	641,000	lbs
Tensile Load	729,000	lbs
Min. Internal Yield Pressure	12,640	psi
Collapse Pressure	11,110	psi
•		

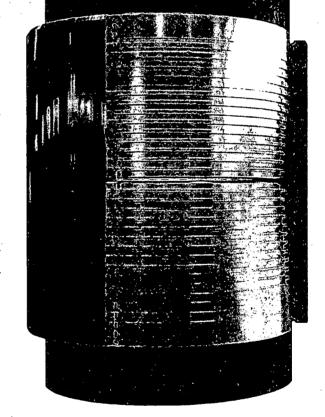
Conn	ection	Paran	neters

Drift Diameter

Nom. Pipe Body Area

Connection OD	6.050	in
Connection ID	4.778	in
Make-Up Loss	4.324	in
Critical Section Area	5.828	in²
Tension Efficiency	100.0	%
Compression Efficiency	100.0	%
Yield Load In Tension	641,000	lbs
Min. Internal Yield Pressure	12,640	psi
Collapse Pressure	11,110	psi
Uniaxial Bending	92	°/ 100 ft

Make-Up Torques		
Min. Make-Up Torque	1,4,000	ft-lbs
Opt. Make-Up Torque	16,000	ft-lbs
Max. Make-Up Torque	18,000	ft-lbs
Operating Torque	36,800	ft-lbs
Yield Torque	46,000	ft-lbs



Printed on: March-05-2019

### NOTE:

The content of this Technical Data Sheet is for general information only and does not guarantee performance or imply fitness for a particular purpose, which only a competent drilling professional can determine considering the specific installation and operation parameters. Information that is printed or downloaded is no longer controlled by TMK IPSCO and might not be the latest information. Anyone using the information herein does so at their own risk. To verify that you have the latest TMK IPSCO technical information, please contact TMK IPSCO Technical Sales toll-free at 1-888-258-2000.



### PERFORMANCE DATA

TMK UP DQX **Technical Data Sheet**  5.500 in

20.00 lbs/ft

Tubular Parameters			
Size	5.500	in	Mi
Nominal Weight	20.00	lbs/ft	Mir
Grade	P-110		Yi€
PE Weight	19.81	lbs/ft	Te
Wall Thickness	0.361	in	Mir
Nominal ID	4.778	in	Co
Drift Diameter	4.653	in	
Nom Pine Rody Area	5 828	in <sup>2</sup>	

Size	5.500	in	Minimum Yield	110,000	psi
Nominal Weight	20.00	lbs/ft	Minimum Tensile	125,000	psi
Grade	P-110		Yield Load	641,000	lbs
PE Weight	19.81	lbs/ft	Tensile Load	729,000	lbs
Wall Thickness	0.361	in	Min. Internal Yield Pressure	12,600	psi
Nominal ID	4.778	in	Collapse Pressure	11,100	psi
Drift Diameter	4.653	in		ı	
Nom. Pipe Body Area	5.828	in²			

Connection Parameters		
Connection OD	6.050	in
Connection ID	4.778	in∙
Make-Up Loss	4 122	in ·
Critical Section Area	5.828	in² '
Tension Efficiency	100 0	%
Compression Efficiency	100.0	%
Yield Load In Tension	641.000	lbs
Min. Internal Yield Pressure	12,600	psi
Collapse Pressure	11,100	psi

Make-Up Torques										
Min. Make-Up Torque	11,600	ft-lbs								
Opt. Make-Up Torque	12,900	ft-lbs								
Max. Make-Up Torque	14,100	ft-lbs								
Yield Torque	20,600	ft-lbs								

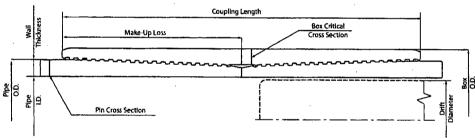
Printed on: July-29-2014

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### TECHNICAL DATA SHEET TMK UP DQX 5.5 X 20 P110

TUBULAR PARAMETERS		PIPE BODY PROPERTIES	
Nominal OD, (inch)	5.500	PE Weight, (ibs/ft)	19.81
Wall Thickness, (inch)	0.361	Nominal Weight, (lbs/ft)	20.00
Pipe Grade	P110	Nominal ID, (inch)	4.778
Coupling	Regular	Drift Diarneter, (inch)	4.653
Coupling Grade	P110	Nominal Pipe Body Area, (sq Inch)	5.828
Drift	Standard	Yield Strength in Tension, (klbs)	641
		Min. Internal Yield Pressure, (psi)	12 640
CONNECTION PARAMETERS		Collapse Pressure, (psi)	. 11 110
Connection OD (inch)	6.05		
Connection ID, (inch)	4.778	internal Pressure	
Make-Up Loss, (inch)	4.122		
Connection Critical Area, (sq inch)	5.828		
Yield Strength in Tension, (klbs)	641	in Myork	
Yeld Strength in Compression, (klbs)	641		
Tension Efficiency	100%	一十十八月前后,陈士	
Compression Efficiency	100%		4 962
Min. Internal Yield Pressure, (psi)	12 640		
Collapse Pressure, (psi)	11 110		
Uniaxial Bending (deg/100ft)	91.7		
MAKE-UP TORQUES		The state of the s	
Yield Torque, (ft-lb)	20 600	Feturnal Pressure	0-1-4
Minimum Make-Up Torque, (ft-lb)	11 600		a lipping benefung
Optimum Make-Up Torque, (ft-lb)	12 900		
Maximum Make-Up Torque, (ft-lb)	14 100		



NOTE: The content of this Technical Data Sheet is for general information only and does not guarantee performance or intoly lithesis for a particular purpose, which only a competent drilling professional run determine considering the specific institution and operation partnerers. This information supersed all prior versions for this connection. Information that is printed or downloaded is no longer controlled by TMK and might not be the latest information. The prior is not given by the prior that information a prior information aprior downloaded is no longer controlled by TMK. Technical Sales in Russia (Tel. \*2 (495) 775-76-00). Email: technoles@mk group com) and TMK IPSCO in North America (Tel. \*1 (281)949-1044, Email: technoles@crimk.ipsco.com)

Print date: 12/07/2017 18:09

### PERFORMANCE DATA

### TMK UP SF TORQ™ Technical Data Sheet

Nom. Pipe Body Area

5.500 in

in²

5.828

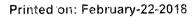
20.00 lbs/ft

P110 HC

Tubular Parameters	3			•.	
Size	5.500	in	Minimum Yield	110,000	psi
Nominal Weight	20.00	lbs/ft	Minimum Tensile	125,000	psi
Grade	P110 HC		Yield Load	641,000	lbs
PE Weight	19.81	lbs/ft	Tensile Load	728,000	lbs
Wall Thickness	0.361	in	Min. Internal Yield Pressure	12,640	psi
Nominal ID	4.778	in	Collapse Pressure .	12,780	psi
Drift Diameter	4.653	in		•	•

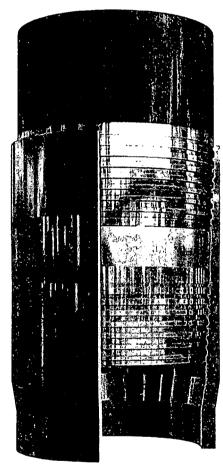
Connection Parameters		
Connection OD	5.777	in
Connection ID	4.734	in
Make-Up Loss	5.823	in
Critical Section Area	5.875	in²
Tension Efficiency	90.0	%
Compression Efficiency	90.0	%
Yield Load In Tension	576,000	lbs
Min. Internal Yield Pressure	12,640	psi
Collapse Pressure	12,780	pši
Uniaxial Bending	83	°/ 100 ft

Make-Up Torques		,
Min. Make-Up Torque	15,700	ft-lbs
Opt. Make-Up Torque	19.600	ft-lbs
Max. Make-Up Torque	21,600	ft-lbs
Operating Torque	29,000	ft-lbs
Yield Torque	36,000	ft-lbs





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## OXY

PRD NM DIRECTIONAL PLANS (NAD 1983) OXBOW CC 17-08 FED COM Oxbow CC 17-08 Federal Com 35H

**WB00** 

Plan: Permitting Plan

# **Standard Planning Report**

23 May, 2019

### Oxy

### Planning Report

HOPSPP

ENGINEERING DESIGNS Company:

PRD NM DIRECTIONAL PLANS (NAD 1983)

Project: Site. Well: OXBOW CC 17-08 FED COM Oxbow CC 17-08 Federal Com 35H

WB00

Wellbore: Design: Permitting Plan Local Co-ordinate Reference

TVD Reference: North Reference:

Survey Calculation Method:

Well Oxbow CC 17-08 Federal Com 35H

RKB=26.5' @ 2953.00ft RKB=26.5' @ 2953.00ft

Grid

Minimum Curvature

PRD NM DIRECTIONAL PLANS (NAD 1983)

Map System: Geo Datum:

Map Zone:

US State Plane 1983

North American Datum 1983 New Mexico Eastern Zone

System Datum:

Mean Sea Level

Using geodetic scale factor

Site Position:

Мар

Northing:

440,994.67 usft

Latitude:

32° 12' 42,973882 N

From:

Easting:

643,785.93 usft

Longitude:

104° 0' 7.482139 W

**Position Uncertainty:** 

50.00 ft Slot Radius: 13.200 in

**Grid Convergence:** 

Oxbow CC 17-08 Federal Com 35H

**Well Position** 

+N/-S +E/-W

-0.19 ft 35.00 ft Northing:

Easting:

440,994.48 usft 643,820.93 usft

Latitude: Longitude: 32° 12' 42.970934 N 104° 0' 7.074745 W

**Position Uncertainty** 

2.00 ft

Wellhead Elevation:

0.00 ft

**Ground Level:** 

2,926.50 ft

Declination HDGM 5/23/2019 59.93 47,903 6.98

Design Permitting Plan	arres or addicables, observer i mere 825 - 195 - Da 379,03(8) of 1964 (1.6) of	ning an english in the second	elektrika kalendar ing kalendar kalendar kalendar ing berandar berandar ing berandar berandar ing berandar ber Sakel adalah kalendar ing berandar ing berandar berandar ing berandar berandar ing berandar berandar ing berand	and other land make the source of the same	and and an extra significant
Audit Notes:		,			
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.00	
Vertical Section: Depth	From (TVD) (ft)	FN/-S (ft)	(ft)	(°)	
	0.00	0.00	0.00	1.07	

Plan Sections  Measured  Depth (it)	iclination:	Azimuth	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg, Rate	Build Rate (°/100ft)	Turnf Rate (*/100ft)	TFO	Target
Marke M.	in the last of			THE LOOP	Marieta II.					North Control of the
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
3,653.00	0.00	0.00	3,653.00	0.00	0.00	0.00	0.00	0.00	0.00	
4,453.13	16.00	168.74	4,442.77	-108.87	21.68	2.00	2.00	0.00	168.74	
7,956.43	16.00	168.74	7,810.31	-1,056.06	210.34	0.00	0.00	0.00	0.00	
9,549.11	16.00	359.66	9,381.97	-1,051.76	253.00	2.00	0.00	-10.62	-174.32	
10,287.74	89.86	359.66	9,797.00	-502.37	249.70	10.00	10.00	0.00	0.00	FTP (Oxbow CC
20,788.98	89.86	359.66	.9,822.00	9,998.65	186.57	0.00	0.00	0.00	0.00	PBHL (Oxbow CC

### Planning Report

Database Company Project: Site: Well: Wellbore: Design

HOPSPP

ENGINEERING DESIGNS

PRD NM DIRECTIONAL PLANS (NAD 1983)

OXBOW CC 17-08 FED COM Oxbow CC 17-08 Federal Com 35H

WB00

Design: Permitting Plan

Local Co-ordinate Reference: Well Oxbow CC 17-08 Federal Com 35H
TVD Reference: RKB=26.5' @ 2953.00ft
RKB=26.5' @ 2953.00ft
RKB=26.5' @ 2953.00ft
Grid
Survey Calculation Method: Minimum Curvature

THE REPORT OF THE	A ANTONIO	LIBRER SOLUTION	CTALC LANGE AND DATE IN	ACCOUNT TO A PART OF THE PART	ALMURE METALTON	ATTECTOTIONS	A CONTRACTOR OF LOS	NALIGNOSCO TOTALLO	TING IT CONSCIPE THE
Planned Survey	A CASA	36 January 1913	والمغارف المعادر المعادر المعادر		est transfer		CATES TORRESTE	THE THE PARTY OF THE	STREET OF A THE STREET OF
ESSATE STATE	为主动的	THE THE	ASS JEG ASSESS		<b>秦公司</b> 李公司				
Measured .		A STATE OF S	Vertical - ∵			Vertical 🔭	Dogleg	Build	Turn
Depth	Inclination	- Azimuth	Depth :	L.+N/-Spale	+E/-W∴	Section	Rate	Rate	Rate
(ft)	WAS CONTRACTED		% (ft))	学(作)。一学学	(ft):	(ft) *********	(°/100ft);	77.1	(°/100ft)
CERCIANI DENIS	the second of the second	and the second	الطائدة الانتجاب املا	ig therees	earine in		The structure	ias see la v	CIE LENZI METER
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100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	. 0.00	0.00	600.00	. 0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00							0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00			
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1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1									
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00		
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	3,100.00	0.00	0.00	0.00	0.00	0.00	0.00
3,100.00 3,200.00	0.00	0.00	3,100.00		0.00	0.00	0.00	0.00	0.00
3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.00	0.00	0.00
3,400.00	0.00	0.00	3,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1		•							
3,500.00	0.00	0.00	3,500.00	0.00	0.00	0.00	0.00	0.00	0.00
3,600.00	0.00	0.00	3,600.00	0.00	0.00	0.00	0.00	0.00	0.00
3,653.00	0.00	0.00	3,653.00	0.00	0.00	0.00	0.00	0.00	0.00
3,700.00	0.94	168.74	3,700.00	-0.38	80.0	-0.38	2.00	2.00	0.00 、
3,800.00	2.94	168.74	3,799.94	-3.70	0.74	-3.68	2.00	2.00	0.00
3,900.00	4.94	168.74	3,899.69	-10.44	2.08	-10.40	2.00	2.00	0.00
4,000.00	6.94	168.74	3,999.15	-20.59	4.10	-20.51	2.00	2.00	0.00
		168.74	4,098.19	-34.13	6.80	-34.00	2.00	2.00	0.00
4,100.00	8.94					-50.86		2.00	0.00
4,200.00	10.94	168.74	4,196.68	-51.06	10.17		2.00	2.00	0.00
4,300.00	12.94	168.74	4,294.51	-71.35	14.21	-71.07	2.00		
4,400.00	14.94	168.74	4,391.56	-94.97	18.92	-94.61	2.00	2.00	0.00
4,453.13	16.00	168.74	4,442.77	-108.87	21.68	-108.45	2.00	2.00	0.00
4,500.00	16.00	168.74	4,487.82	-121.55	24.21	-121.07	0.00	0.00	0.00
4,600.00	16.00	168.74	4,583.95	-148.58	29.59	-148.01	0.00	0.00	0.00
4,700.00	16.00	168.74	4,680.07	-175.62	34.98	-174.94	0.00	0.00	0.00
4,800.00	16.00	168.74	4,776.20	-202.66	40.36	-201.87	0.00	0.00	0.00
4,900.00	16.00	168.74	4,872.32	-229.69	45.75	-228.80	0.00	0.00	0.00
5,000.00	16.00	168.74	4,968.45	-256.73	51.13	-255.73	0.00	0.00	0.00
5,100.00	16.00	168.74	5,064.57	-283.77	56.52	-282.66	0.00	0.00	0.00

### Оху Planning Report

ENGINEERING DESIGNS

PRD NM DIRECTIONAL PLANS (NAD 1983) -

Database HOPSPP
Company ENGINEE
PRD NM I
Site W OXBOW CO
Well: Oxbow CO
Wellbore: WB00
Permitting OXBOW CC 17-08 FED COM

Oxbow CC 17-08 Federal Com 35H

Permitting Plan

Local Co-ordinate Reference:

TVD Reference:

MD Reference:

North Reference:

Survey, Calculation Method:

Well Oxbow CC 17-08 Federal Com 35H

RKB=26.5' @ 2953.00ft

RKB=26.5' @ 2953.00ft

Grid

Minimum Curvature

Technic Street				· · · · · · · · · · · · · · · · · · ·	Marit Japan	Battle Land Hotel Branch Committee	Comment approximation and the comment of the terminal and the comment of the comm		al en res se fan en en arminest beskriv Antonionis er en arminest beskrivest ar
PARK AND TO SELECT	CHARLES THE FIRST STATES	THE SERVICE CONTRACTOR	olimata - 1,195 per jana 2 m	I CHROMOMETER ALE	Silvery St., Letterson	NAME OF THE PERSON OF THE PERS	aliya kuriyi u ariya kariyada ar	THE TYLES	ALL AND THE REPORT AND AND ADDRESS NAMED IN
Planned Survey		ringeren er enger it datmanete	and the book star are notice and the star	na osimoneae reconstr	CONTRACTOR MARKET TO	aryn synolly chwai. c	TESTELT LIP SEPTEMBERS.	PARKETON'S THE THE PER	rena az e adicularden i direk
1.77	<b>常能的是10月19月19</b>				可想是"我们"	<b>新心理性不是</b>			
<b>通常是生态</b>	<b>全人共享证明</b> 的	AC ACT TOP TO LIST	Vertical 4		全海 中国主义	Vertical ,	Dogleg	Build	Turn
Measur		一点。这种原则		0. 不是 是是为任何			Rate	Rate	Rate
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5,300	).00 16.	00 168.74	5,256.82	-337.84	67.29	-336.53	0.00	0.00	0.00
5,400			5,352.95	-364.88	72,67	-363.46	0.00	0.00	0.00
1						-390.39	0.00	0.00	0.00
5,500			5,449.07	-391.92	78.06				
5,600	).00 16.	00 168.74	5,545.20	-418.95	83.44	· -417.32	0.00	0.00	0.00
5,700	),00 16.	00 168.74	5,641.32	-445.99	88.83	-444.26	0.00	0.00	0.00
			•						
5,800	).00 16.	00 168.74	5,737.45	-473.03	94.21	<del>-4</del> 71.19	0.00	0.00	0.00
5,900	).00 16.	00 168.74	5,833.57	-500.06	99.60	-498.12	0.00	0.00	0.00
1			5,929.70	-527.10	104.98	-525.05	0.00	0.00	0.00
6,000									
6,100				-554.14	110.37	-551.9 <b>8</b>	0.00	0.00	0.00
6,200	).00 16.	00 168.74	6,121.95	-581.18	115.75	-578.91	0.00	0.00	0.00
. 1					4	00-05		0.00	`0.00
6,300				-608.21	121.14	-605.85	0.00	0.00	0.00
6,400	).00 16.	00 168.74	6,314.20	-635.25	126.52	-632.78	0.00	0.00	0.00
6,500			6,410.32	-662.29	131.91	-659.71	0.00	0.00	0.00
				-689.32	137.29	-686.64	0.00	0.00	0.00
6,600									
6,700	).00 16.	00 168.74	6,602.57	-716.36	142.68	-713.57	0.00	0.00	0.00
0.000	100 10	00 46974	6 600 70	742 40	140.00	-740.51	0.00	0.00	0.00
6,800				-743.40	148.06				
6,900	).00 16.	00 168.74	6,794.82	-770.43	153.45	-767.44	0.00	0.00	0.00
7,000	),00 16.	00 168.74	6,890.95	-797.47	158.83	-794.37	0.00	0.00	0.00
7,100				-824.51	164.22	-821.30	0.00	0.00	0.00
,					169.60	-848.23	0.00	0.00	0.00
7,200	).00 16.	00 168.74	7,083.20	-851.55	109.00	-040.23	0.00	0.00	0.00
7,300	0.00 16.	00 168.74	7,179,32	-878.58	174.99	-875.16	0.00	0.00	0.00
1 '									•
7,400			,	-905.62	180.37	-902.10	0.00	0.00	0.00
7,500	).00 16.	00 168.74	7,371.57	-932.66	. 185.76	-929.03	0.00	0.00	0.00
7,600	0.00 16.	00 168.74	7,467.69	-959.69	191.14	-955.96	0.00	0.00	0.00
7,700				-986.73	196.53	-982.89	0.00	0.00	0.00
7,700	J.00 10.	00 100.74	7,000.02	-500.70	100.00	002.00		0.00	
7,800	0.00 16.	00 168.74	7,659.94	-1,013.77	201.91	-1,009.82	0.00	0.00	0.00
				-1,040.80	207.30	-1,036.76	0.00	0.00	0.00
7,900								0.00	
7,95				-1,056.06	210.34	-1,051.95	0.00		0.00
8,000	0.00 15.	14 168.41	7,852.28	-1,067.52	212.65	-1,063.37	2.00	-1.99	<b>-</b> 0.76
8,100	0.00 13.	15 167.49	7,949.25	-1,091.42	217.74	-1,087.17	2.00	-1.99	-0.92
0,100	3.00		7,070.20	.,,				•	
8,20	0.00 11.	17 166.25	8,047.00	-1,111.93	222.51	-1,107.58	2.00	-1.98	-1.24
8,300		19 164.49		-1,129.03	226.94	-1,124.60	2.00	-1.98	-1.76
8,40		23 161.77		-1,142.70	231.05	-1.138.19	2.00	-1.96	-2.72
				,		•	2.00	-1.93	-4.71
8,500		29 157.06		-1,152.92	234.81	-1,148.34			
8,600	0.00 3.	.43 147.14	8,443.50	-1,159.68	238.2 <del>4</del>	-1,155 <i>.</i> 04	2.00	-1.86	-9.93
		00 440-0	0.540.00	4 400 00	044.04	1 150 07	2.00	-1.55	-28.88
8,70		89 118.26	•	-1,162.98	241.31	-1,158.27			
8,80	0.00 1.	.83 53.08	8,643.35	-1,162.80	244.03	-1,158.04	2.00	-0.06	-65.19
8,90		.33 22.14	8,743.25	-1,159.15	246.40	-1,154.35	2.00	1.51	-30.94
9,00		18 11.70		-1,152.03	248.41	-1,147.20	2.00	1.85	-10.44
	0.00	40 600					2.00	1.93	-4.88
9,10	uuu /	.12 6.82	8,942.39	<i>-</i> 1,141.46	250.07	-1,136.59	2.00	1.50	7.00
0.00	0.00	.08 4.03	9,041.39	-1,127.44	251.36	-1,122.55	2.00	1.96	-2.79
9,20								1.98	-1.80
9,30		.05 2.22		-1,109.99	252.28	-1,105.09	2.00		
9,40	0.00 13	.04 0.96	9,237.64	-1,089.13	252.84	-1,084.22	2.00	1.98	-1.26
9,50		.02 0.03		-1,064.89	253.04	-1,059.99	2.00	1.99	-0.93
			•	-1,051.76	253.00	-1,046.86	2.00	1.99	-0.76
9,54	10	.00 359.66	9,301.97	-1,001.70	200.00	-1,040.00	2.00	1.55	5.70
, 9,60	0.00 21	.09 359.66	9,430.21	-1,035.58	252.91	-1,030.68	10.00	10.00	0.00
							10.00	10.00	0.00
9,70		.09 359.66		-991.66	252.64	-986.77			
9,80	0.00 41	.09 359.66	9,600.61	-932.83	252.29		10.00	10.00	0.00
9,90		.09 359.66		-860.88	251.86	-856.03	10.00	10.00	0.00
				-778.00	251.36	-773.17	10.00	10.00	0.00
10,00	0.00 61	.09 359.66	9,720.00	-110.00	201.30	-110.11	10.00	.0.00	0.00
10,10	0.00 71	.09 359.66	9,766.08	-686.69	250.81	-681.90	10.00	10.00	0.00
						-584.98	10.00	10.00	0.00
10,20		.09 359.66		-589.75	250.23				
10,28	7.74 89	.86 359.66	9,797.00	-502.37	249.70	-497.62	10.00	10.00	0.00
	***								

### Оху

### Planning Report

Database:
Company:
Eroject:
PRD NM DIRECTIONAL PLANS (NAD 1983)
OXBOW CC 17-08 FED COM
Oxbow CC 17-08 Federal Com 35H
Wellbore:
Design:
PRD NM DIRECTIONAL PLANS (NAD 1983)
OXBOW CC 17-08 FED COM
Oxbow CC 17-08 Federal Com 35H
WB00
Permitting Plan

Design:

Local Co-ordinate Reference:

TVD Reference:

MD Reference:

North Reference:

Survey Calculation Method:

Well Oxbow CC 17-08 Federal Com 35H

RKB=26.5' @ 2953.00ft

RKB=26.5' @ 2953.00ft

Grid

Minimum Curvature

Page	Planned Survey	PR PARTICULATION SAN	TOWN INTERPORTURE	Potential Trapportunity	DE TOURS DESTIN	TEMPOTE 2 NO WEST	A THE AMBERTY AF	THE COSPULITY INST.	o apresidente de co	Mark Mr. Comparation of the Comparison of the Co
Comparison   Com	Planned Survey	Saidalle.	CENTURAL FARE	THE ROLL OF	MARKET SECTION		THE PROPERTY OF THE PARTY OF TH	四种母和体型	WHEELER	
Comparison   Com				Variant			Vertical	Dogleg	Ruild A	Tira
	100 100 100 100 100 100 100 100 100 100				INI C	ALC: NA	Section	Rate	Rate	
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10,400,000 89,86 359,66 9,797,27 -390,12 249,03 -386,40 0.00 0.00 0.00 10,500,00 11,500,00 10,500,00 11,500,00 10,500,00 11,500,00 10,500,00 11,500,00 10,500,00 11,500,00 10,500,00 11,500,00 10,500,00 10,500,00 11,500,00 10,500,00 11,500,00 10,500,00 11,500,00 10,500,00 11,500,00 10,500,00 11,500,00 10,500,00 10,500,00 11,500,00 10,500,00 10,500,00 11,500,00 10,500,00 11,500,00 10,500,00 11,500,00 10,500,00 11,500,00 10,500,00 11,500,00 10,500,00 10,500,00 11,500,00 10,500,00 10,500,00 11,500,00 10,500,00 11,500,00 10,500,00 11,500,00 10,50	THE STATE OF THE S	everan.		於是是是	1. 100000000000000000000000000000000000		SECTION OF		的分别是使用的证明	正言: "他" 例 图
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10,600,00 89,86 39,96 9,797.74 -190.12 247.82 -186.46 0.00 0.00 0.00 10,000,00 10,000,00 89,86 39,96 9,798.82 9,88 246.02 14.48 0.00 0.00 0.00 0.00 10,900,00 89,86 39,96 9,788.22 9,88 246.02 14.48 0.00 0.00 0.00 0.00 11,000,00 89,86 39,96 9,788.07 209.87 245.02 14.48 0.00 0.00 0.00 0.00 11,100,00 89,86 39,96 9,788.07 209.87 245.02 214.41 0.00 0.00 0.00 0.00 11,100,00 89,86 39,96 9,788.03 39,96 72 245.02 24.48 22 34.48 23 34.38 0.00 0.00 0.00 0.00 11,100,00 89,86 39,96 9,789.83 39,96 72 24.48 22 34.48 23 34.38 0.00 0.00 0.00 0.00 11,100,00 89,86 359,66 9,789.85 72 24.42 24.48 23 34.38 0.00 0.00 0.00 0.00 11,100,00 89,86 359.66 9,789.85 72 24.42 24.48 24.48 25 0.00 0.00 0.00 0.00 11,100,00 89,86 359.66 9,789.89 72 24.42 24.48 24.48 25 0.00 0.00 0.00 0.00 11,100,00 89,86 359.66 9,800.35 909.86 24.24 71 74.26 0.00 0.00 0.00 0.00 11,100,00 89,86 359.66 9,800.35 909.86 241.21 81.42 30.00 0.00 0.00 0.00 11,100,00 89,86 359.66 9,800.35 909.86 241.21 814.23 0.00 0.00 0.00 0.00 11,100,00 89,86 359.66 9,800.36 909.86 241.21 81.42 30.00 0.00 0.00 0.00 11,100,00 89,86 359.66 9,800.35 1.009.86 241.21 81.42 30.00 0.00 0.00 0.00 11,100,00 89,86 359.66 9,800.36 1.009.86 241.21 81.42 30.00 0.00 0.00 0.00 11,100,00 89,86 359.66 9,800.36 1.009.86 241.21 81.42 30.00 0.00 0.00 0.00 11,100,00 89,86 359.66 9,800.36 1.009.86 241.21 81.42 30.00 0.00 0.00 0.00 12,100,00 89,86 359.66 9,801.31 1.09.85 240.01 1.114.14 0.00 0.00 0.00 0.00 12,100,00 89,86 359.66 9,801.31 1.09.85 240.01 1.114.14 0.00 0.00 0.00 0.00 12,100,00 89,86 359.66 9,801.31 1.09.85 240.01 1.114.14 0.00 0.00 0.00 0.00 12,200.00 89,86 359.66 9,801.31 1.09.85 238.80 1.314.08 0.00 0.00 0.00 0.00 12,200.00 89,86 359.66 9,801.31 1.09.85 238.80 1.314.08 0.00 0.00 0.00 0.00 12,200.00 89,86 359.66 9,801.31 1.09.85 238.80 1.314.08 0.00 0.00 0.00 0.00 0.00 12,200.00 89,86 359.66 9,801.31 1.09.85 238.80 1.314.08 0.00 0.00 0.00 0.00 0.00 0.00 0.00	10,400.00	89.86	359.66	9,797.27	-390.12	249.03	-385.40	0.00	0.00	. 0.00
10,600,000 89,86 359,66 9,787.74 -190.12 247.82 -186.46 0.00 0.00 0.00 10,000 10,000 10,000 89,86 359,66 9,789.82 9,88 246.62 14.48 0.00 0.00 0.00 0.00 10,000 0.00 10,000 89,86 359,66 9,788.22 9,88 246.02 14.48 0.00 0.00 0.00 0.00 11,000,00 89,86 359,66 9,788.87 209.87 245.22 214.41 0.00 0.00 0.00 0.00 11,100,00 89,86 359,66 9,788.87 209.87 245.22 214.41 0.00 0.00 0.00 0.00 11,200,00 89,86 359,66 9,789.81 50,987 244.82 314.38 0.00 0.00 0.00 0.00 11,200,00 89,86 359,66 9,789.81 50,987 244.82 414.35 0.00 0.00 0.00 0.00 11,300,00 89,86 359,66 9,789.81 50,987 244.82 414.35 0.00 0.00 0.00 0.00 11,400,00 89,86 359,66 9,789.85 70,986 243.01 614.29 0.00 0.00 0.00 0.00 11,600,00 89,86 359,66 9,789.85 70,986 243.01 614.29 0.00 0.00 0.00 0.00 11,600,00 89,86 359,66 9,789.85 80,980.85 244.81 814.23 0.00 0.00 0.00 0.00 11,700,00 89,86 359,66 9,800.36 9,800.85 241.81 814.23 0.00 0.00 0.00 0.00 11,700,00 89,86 359,66 9,800.36 9,800.85 241.81 814.23 0.00 0.00 0.00 0.00 11,700,00 89,86 359,66 9,800.36 9,800.85 241.81 814.23 0.00 0.00 0.00 0.00 11,800,00 89,86 359,66 9,800.36 1,009,86 240.61 1,014.17 0.00 0.00 0.00 0.00 11,200,00 89,86 359,66 9,800.36 1,009,86 240.61 1,014.17 0.00 0.00 0.00 0.00 11,200,00 89,86 359,66 9,800.36 1,009,86 240.61 1,014.17 0.00 0.00 0.00 12,200,00 89,86 359,66 9,801.85 1,209,85 240.61 1,014.17 0.00 0.00 0.00 0.00 12,200,00 89,86 359,66 9,801.55 1,409,85 238.20 1,414.05 0.00 0.00 0.00 12,200,00 89,86 359,66 9,801.55 1,409,85 238.20 1,414.05 0.00 0.00 0.00 0.00 12,200,00 89,86 359,66 9,801.55 1,409,85 238.20 1,414.05 0.00 0.00 0.00 0.00 12,200,00 89,86 359,66 9,801.55 1,409,85 238.20 1,414.05 0.00 0.00 0.00 0.00 12,200,00 89,86 359,66 9,801.55 1,409,85 238.20 1,414.05 0.00 0.00 0.00 0.00 12,200,00 89,86 359,66 9,801.55 1,409,85 238.20 1,414.05 0.00 0.00 0.00 0.00 0.00 12,200,00 89,86 359,66 9,801.55 1,409,85 238.20 1,414.05 0.00 0.00 0.00 0.00 0.00 0.00 0.00	10.500.00	89.86	359.66	9,797.51	-290.12	248.42	-285.43	0.00	0.00	0.00
10,900.00	· · · · · · · · · · · · · · · · · · ·			9,797.74	-190.12	247.82	-185.46	0.00	0.00	
10,900.00 89.86 359.66 9,798.70 209.87 245.42 214.41 0.00 0.00 0.00 1.11,000.00 89.86 359.86 9,798.70 209.87 245.42 214.41 0.00 0.00 0.00 0.00 11,100.00 89.86 359.86 9,798.70 1798.71 408.87 244.42 414.35 0.00 0.00 0.00 0.00 11,300.00 99.86 359.86 9,798.11 509.87 244.42 414.35 0.00 0.00 0.00 0.00 11,300.00 99.86 359.86 9,798.11 509.87 244.22 414.35 0.00 0.00 0.00 0.00 11,400.00 89.86 359.86 9,798.11 509.87 709.86 243.01 614.29 0.00 0.00 0.00 0.00 11,400.00 89.86 359.86 9,798.01 24 809.86 241.81 814.23 0.00 0.00 0.00 0.00 11,700.00 89.86 359.86 9,800.12 809.86 241.81 814.23 0.00 0.00 0.00 0.00 11,700.00 89.86 359.86 9,800.12 809.86 241.81 814.23 0.00 0.00 0.00 0.00 11,800.00 89.86 359.86 9,800.00 1.009.86 240.61 1.014.17 0.00 0.00 0.00 11,900.00 89.86 359.86 9,800.60 1.009.86 240.61 1.014.17 0.00 0.00 0.00 11,900.00 89.86 359.86 9,800.13 1.109.85 240.01 11,141.14 0.00 0.00 0.00 12,200.00 89.86 359.86 9,801.08 1,209.85 240.01 11,141.14 0.00 0.00 0.00 12,200.00 89.86 359.86 9,801.85 1,209.85 238.80 1,314.08 0.00 0.00 0.00 12,200.00 89.86 359.86 9,801.35 1,309.85 238.80 1,314.08 0.00 0.00 0.00 12,200.00 89.86 359.86 9,801.85 1,409.85 238.80 1,314.08 0.00 0.00 0.00 0.00 12,200.00 89.86 359.86 9,801.85 1,409.85 238.80 1,314.08 0.00 0.00 0.00 0.00 12,200.00 89.86 359.86 9,801.85 1,409.85 238.80 1,314.08 0.00 0.00 0.00 0.00 12,200.00 89.86 359.86 9,801.35 1,409.85 238.80 1,314.08 0.00 0.00 0.00 0.00 12,200.00 89.86 359.86 9,801.35 1,409.85 238.80 1,314.08 0.00 0.00 0.00 0.00 12,200.00 89.86 359.86 9,801.35 1,409.85 238.80 1,314.08 0.00 0.00 0.00 0.00 12,200.00 89.86 359.86 9,801.35 1,409.85 238.80 1,314.08 0.00 0.00 0.00 0.00 12,200.00 89.86 359.86 9,801.35 1,409.85 238.80 0,314.08 0.00 0.00 0.00 0.00 0.00 12,200.00 89.86 359.86 9,802.71 1,509.84 237.60 1,414.05 0.00 0.00 0.00 0.00 0.00 12,200.00 89.86 359.86 9,802.71 1,509.84 237.60 1,414.05 0.00 0.00 0.00 0.00 0.00 12,200.00 89.86 359.86 9,802.27 1,509.84 237.80 1,414.35 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	10,700.00	89.86	359.66	9,797.98						i i
11,000.00 89.86 358.86 9,798.70 209.87 245.42 214.41 0.00 0.00 0.00 0.00 11,100.00 89.86 358.86 9,798.91 308.87 244.82 314.38 0.00 0.00 0.00 0.00 11,100.00 89.86 358.86 9,798.91 409.87 244.22 414.35 0.00 0.00 0.00 0.00 11,100.00 89.86 358.86 9,798.91 508.87 243.61 514.32 0.00 0.00 0.00 0.00 11,100.00 89.86 358.86 9,798.91 508.87 243.61 514.32 0.00 0.00 0.00 0.00 11,100.00 89.86 358.86 9,798.91 508.87 243.61 514.32 0.00 0.00 0.00 0.00 11,100.00 89.86 359.86 9,809.80 21.21 809.86 243.01 614.28 0.00 0.00 0.00 0.00 11,100.00 89.86 359.86 9,800.36 90.88 242.41 11 914.20 0.00 0.00 0.00 0.00 11,100.00 89.86 359.86 9,800.36 909.86 241.21 914.20 0.00 0.00 0.00 0.00 11,100.00 89.86 359.86 9,800.36 10.009.86 240.61 1,1014.17 0.00 0.00 0.00 0.00 11,100.00 89.86 359.86 9,800.84 1,109.85 240.01 1,114.14 0.00 0.00 0.00 0.00 12,000.00 89.86 359.86 9,801.08 1,209.85 240.01 1,114.14 0.00 0.00 0.00 0.00 12,000.00 89.86 359.86 9,801.88 1,209.85 249.81 1,214.11 0.00 0.00 0.00 0.00 12,000.00 89.86 359.86 9,801.85 1,409.85 239.41 1,214.11 0.00 0.00 0.00 0.00 12,000.00 89.86 359.86 9,801.55 1,409.85 239.20 1,414.05 0.00 0.00 0.00 0.00 12,000.00 89.86 359.86 9,801.55 1,409.85 239.20 1,414.05 0.00 0.00 0.00 0.00 12,000.00 89.86 359.86 9,801.55 1,409.85 239.20 1,414.05 0.00 0.00 0.00 0.00 12,000.00 89.86 359.86 9,801.55 1,409.85 239.20 1,414.05 0.00 0.00 0.00 0.00 12,000.00 89.86 359.86 9,801.79 1,509.84 237.60 1,414.05 0.00 0.00 0.00 0.00 12,000.00 89.86 359.86 9,801.37 1,509.84 237.60 1,414.05 0.00 0.00 0.00 0.00 12,000.00 89.86 359.86 9,801.55 1,409.85 239.20 1,414.05 0.00 0.00 0.00 0.00 0.00 12,000.00 89.86 359.86 9,801.55 1,409.85 239.20 1,414.15 0.00 0.00 0.00 0.00 0.00 0.00 12,000.00 89.86 359.86 9,801.37 1,509.84 237.60 1,414.05 0.00 0.00 0.00 0.00 0.00 12,000.00 89.86 359.86 9,801.55 1,409.85 239.80 1,409.85 239.80 0.00 0.00 0.00 0.00 0.00 0.00 0.00	10,800.00									
11,100.00  89.86  359.68  9,799.17  409.87  244.22  414.32  0.00  0.00  0.00  0.00  11,300.00  89.86  359.68  9,799.17  409.87  244.22  414.32  0.00  0.00  0.00  0.00  11,400.00  89.86  359.66  9,799.85  609.86  243.01  614.29  0.00  0.00  0.00  0.00  11,500.00  89.86  359.66  9,799.89  709.86  242.11  714.26  0.00  0.00  0.00  0.00  11,500.00  89.86  359.66  9,800.12  809.86  241.81  814.23  0.00  0.00  0.00  0.00  11,500.00  89.86  359.66  9,800.12  809.86  241.81  814.23  0.00  0.00  0.00  0.00  11,900.00  89.86  359.86  9,800.36  9,800.84  1,109.85  240.61  1,114.17  0.00  0.00  0.00  0.00  11,900.00  89.86  359.86  9,800.84  1,109.85  240.11  1,114.11  0.00  0.00  0.00  0.00  12,000.00  89.86  359.86  9,801.31  1,309.85  238.80  1,414.05  0.00  0.00  0.00  0.00  12,200.00  89.86  359.86  9,801.79  1,509.84  237.60  1,514.01  0.00  0.00  0.00  0.00  12,400.00  89.86  359.86  9,802.73  1,709.84  237.60  1,514.01  0.00  0.00  0.00  0.00  12,500.00  89.86  359.86  9,802.73  1,709.84  237.60  1,514.39  0.00  0.00  0.00  0.00  12,500.00  89.86  359.86  9,802.72  1,709.84  237.60  1,813.95  0.00  0.00  0.00  0.00  12,500.00  89.86  359.86  9,802.72  1,709.84  235.80  1,813.85  0.00  0.00  0.00  0.00  12,500.00  89.86  359.86  9,802.72  1,709.84  235.80  1,813.85  0.00  0.00  0.00  0.00  12,500.00  89.86  359.86  9,802.72  1,709.84  235.80  1,813.85  0.00  0.00  0.00  0.00  12,500.00  89.86  359.86  9,802.72  1,709.84  235.80  1,813.85  0.00  0.00  0.00  0.00  13,000.00  89.86  359.86  9,802.72  1,709.84  235.80  1,813.85  0.00  0.00  0.00  0.00  13,000.00  89.86  359.86  9,802.72  1,709.84  235.80  1,813.85  0.00  0.00  0.00  0.00  12,500.00  89.86  359.86  9,802.74  1,809.84  237.80  1,813.85  0.00  0.00  0.00  0.00  13,000.00  89.86  359.86  9,802.74  1,809.84  237.80  1,813.85  0.00  0.00  0.00  0.00  1,900.00  0.00  0.00  1,900.00  0.00	10,900.00	89.86	359.66	9,798.46	109.87	246.02	114.44	0.00	0.00	0.00
11,200.00  89.86  39.98.69  9,799.41  509.87  243.61  514.32  0.00  0.00  0.00  11,400.00  89.86  359.86  9,799.85  609.86  243.01  614.29  0.00  0.00  0.00  0.00  11,500.00  89.86  359.86  9,800.12  809.86  243.01  614.29  0.00  0.00  0.00  0.00  11,600.00  89.86  359.86  9,800.12  809.86  241.21  944.20  0.00  0.00  0.00  0.00  0.00  11,700.00  89.86  359.86  9,800.36  9,800.60  1,009.86  244.21  944.20  0.00  0.00  0.00  0.00  0.00  11,900.00  89.86  359.86  9,800.36  1,009.86  240.81  1,144.20  0.00  0.00  0.00  0.00  11,900.00  89.86  359.86  9,800.38  1,109.85  240.01  1,114.14  0.00  0.00  0.00  0.00  12,000.00  89.86  359.86  9,800.38  1,209.85  239.41  1,214.11  0.00  0.00  0.00  0.00  12,000.00  89.86  359.86  9,800.38  1,209.85  238.20  1,414.05  0.00  0.00  0.00  0.00  12,200.00  89.86  359.86  9,800.38  1,109.85  239.41  1,414.08  0.00  0.00  0.00  0.00  12,300.00  89.86  359.86  9,800.38  1,109.85  238.20  1,414.05  0.00  0.00  0.00  0.00  12,500.00  89.86  359.86  9,802.50  1,609.84  237.60  1,613.98  0.00  0.00  0.00  0.00  12,500.00  89.86  359.86  9,802.25  1,709.84  235.80  1,813.92  0.00  0.00  0.00  0.00  12,600.00  89.86  359.86  9,802.25  1,709.84  235.80  1,813.92  0.00  0.00  0.00  0.00  12,600.00  89.86  359.86  9,802.25  1,709.84  235.80  1,813.92  0.00  0.00  0.00  0.00  12,600.00  89.86  359.86  9,802.25  1,709.84  235.80  1,813.92  0.00  0.00  0.00  0.00  12,600.00  89.86  359.86  9,802.25  1,809.84  235.80  1,813.92  0.00  0.00  0.00  0.00  13,000.00  89.86  359.86  9,803.74  1,909.84  235.80  1,813.92  0.00  0.00  0.00  0.00  13,000.00  89.86  359.86  9,803.74  1,909.84  235.80  1,813.92  0.00  0.00  0.00  0.00  13,000.00  89.86  359.86  9,803.70  2,008.83  2,213.80  0.00  0.00  0.00  0.00  13,000.00  89.86  359.86  9,803.70  359.86  9,803.70  1,709.86  2,709.82  2,709.83  2,713.86  0.00  0.00  0.00  0.00  13,000.00  89.86  359.86  9,803.70  3,009.81  1,114.14  0.00  0.00  0.00  0.00  13,000.00  89.86  359.86  9,803.70  2,709.86  2,709.86  2,709.86  2,709.86  2,709.86  2,709.86	11,000.00	89.86	359.66	9,798.70	209.87	245.42	214.41	0.00		0.00
11,300.00 89.86 359.66 9,799.41 509.87 243.61 514.32 0.00 0.00 0.00 11,400.00 89.86 359.66 9,799.89 709.86 243.01 614.29 0.00 0.00 0.00 0.00 11,500.00 89.86 359.66 9,800.12 809.86 241.81 814.23 0.00 0.00 0.00 0.00 11,700.00 89.86 359.66 9,800.36 909.86 241.81 814.23 0.00 0.00 0.00 0.00 11,800.00 89.86 359.66 9,800.84 1,109.85 240.61 1,1014.17 0.00 0.00 0.00 11,900.00 89.86 359.66 9,800.84 1,109.85 240.61 1,1014.17 0.00 0.00 0.00 11,900.00 89.86 359.66 9,800.84 1,109.85 240.61 1,1014.17 0.00 0.00 0.00 12,000.00 89.86 359.86 9,801.81 1,309.85 240.01 1,1114.14 0.00 0.00 0.00 12,000 89.86 359.66 9,801.55 1,409.85 238.80 1,141.05 0.00 0.00 0.00 12,000 89.86 359.66 9,801.55 1,409.85 238.80 1,414.05 0.00 0.00 0.00 0.00 12,000 89.86 359.66 9,801.55 1,409.85 238.80 1,414.05 0.00 0.00 0.00 0.00 12,000 89.86 359.66 9,801.55 1,409.85 238.80 1,414.05 0.00 0.00 0.00 0.00 12,000 89.86 359.66 9,801.55 1,409.85 238.80 1,414.05 0.00 0.00 0.00 0.00 12,000 89.86 359.66 9,801.55 1,409.85 238.80 1,414.05 0.00 0.00 0.00 0.00 12,000 89.86 359.66 9,802.03 1,609.84 237.60 1,514.01 0.00 0.00 0.00 0.00 12,500.00 89.86 359.66 9,802.03 1,609.84 237.60 1,514.01 0.00 0.00 0.00 0.00 12,500.00 89.86 359.66 89.802.50 1,809.84 235.80 1,819.95 0.00 0.00 0.00 0.00 12,200.00 89.86 359.66 9,802.50 1,809.84 235.80 1,819.35 0.00 0.00 0.00 0.00 12,200.00 89.86 359.66 9,802.50 1,809.84 235.80 1,819.35 0.00 0.00 0.00 0.00 12,200.00 89.86 359.66 9,802.50 1,809.84 235.80 1,819.35 0.00 0.00 0.00 0.00 12,200.00 89.86 359.66 9,802.80 2,209.83 233.99 2,113.83 0.00 0.00 0.00 0.00 13,200.00 89.86 359.66 9,803.80 2,209.83 233.99 2,113.83 0.00 0.00 0.00 0.00 13,200.00 89.86 359.66 9,803.80 2,209.83 233.99 2,113.83 0.00 0.00 0.00 0.00 13,200.00 89.86 359.66 9,803.80 2,209.83 233.99 2,113.80 0.00 0.00 0.00 0.00 13,200.00 89.86 359.66 9,803.80 2,209.83 233.99 2,113.80 0.00 0.00 0.00 0.00 13,200.00 89.86 359.66 9,803.80 2,209.83 233.99 2,113.83 0.00 0.00 0.00 0.00 13,200.00 89.86 359.66 9,803.80 2,209.80 2,209.80 2,219.50 0.00 0.00 0.00 0.00 0.00 13,200.00 89.86 359.66	11,100.00									
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13,300.00       89.86       359.66       9,804.17       2,509.82       231.59       2,513.71       0.00       0.00       0.00         13,400.00       89.86       359.66       9,804.41       2,609.82       230.99       2,613.68       0.00       0.00       0.00         13,500.00       89.86       359.66       9,804.89       2,809.82       230.39       2,713.65       0.00       0.00       0.00         13,700.00       89.86       359.66       9,804.89       2,809.82       229.79       2,813.62       0.00       0.00       0.00         13,700.00       89.86       359.66       9,805.12       2,909.82       229.19       2,913.58       0.00       0.00       0.00         13,800.00       89.86       359.66       9,805.36       3,009.81       228.58       3,013.55       0.00       0.00       0.00         14,000.00       89.86       359.66       9,805.84       3,209.81       227.98       3,113.52       0.00       0.00       0.00         14,100.00       89.86       359.66       9,806.83       3,09.81       226.78       3,313.49       0.00       0.00       0.00         14,200.00       89.86       359.66       9,806.55					,					
13,400.00 89.86 359.66 9,804.41 2,609.82 230.99 2,613.68 0.00 0.00 0.00 0.00 13,500.00 89.86 359.66 9,804.65 2,709.82 230.39 2,713.65 0.00 0.00 0.00 0.00 13,600.00 89.86 359.66 9,804.89 2,809.82 229.79 2,813.62 0.00 0.00 0.00 0.00 13,700.00 89.86 359.66 9,805.12 2,909.82 229.19 2,913.58 0.00 0.00 0.00 0.00 13,800.00 89.86 359.66 9,805.36 3,009.81 228.58 3,013.55 0.00 0.00 0.00 0.00 13,900.00 89.86 359.66 9,805.60 3,109.81 227.98 3,113.52 0.00 0.00 0.00 0.00 14,000.00 89.86 359.66 9,805.84 3,209.81 227.38 3,213.49 0.00 0.00 0.00 0.00 14,100.00 89.86 359.66 9,805.08 3,309.81 226.78 3,313.46 0.00 0.00 0.00 0.00 14,200.00 89.86 359.66 9,806.31 3,409.81 226.78 3,313.46 0.00 0.00 0.00 0.00 14,200.00 89.86 359.66 9,806.31 3,409.81 226.18 3,413.43 0.00 0.00 0.00 0.00 14,400.00 89.86 359.66 9,806.55 3,509.80 225.58 3,513.40 0.00 0.00 0.00 0.00 14,400.00 89.86 359.66 9,806.79 3,609.80 224.98 3,613.37 0.00 0.00 0.00 0.00 14,600.00 89.86 359.66 9,807.27 3,809.80 225.58 3,513.40 0.00 0.00 0.00 0.00 14,600.00 89.86 359.66 9,807.27 3,809.80 223.77 3,813.31 0.00 0.00 0.00 0.00 14,600.00 89.86 359.66 9,807.50 3,909.79 223.17 3,913.28 0.00 0.00 0.00 0.00 14,600.00 89.86 359.66 9,807.50 3,909.79 223.17 3,913.28 0.00 0.00 0.00 0.00 14,600.00 89.86 359.66 9,807.74 4,009.79 222.57 4,013.25 0.00 0.00 0.00 0.00 15,000.00 89.86 359.66 9,807.98 4,109.79 221.97 4,113.22 0.00 0.00 0.00 15,000.00 89.86 359.66 9,808.22 4,209.79 221.37 4,213.19 0.00 0.00 0.00 15,000.00 89.86 359.66 9,808.22 4,209.79 221.37 4,213.19 0.00 0.00 0.00 15,000.00 89.86 359.66 9,808.82 4,209.79 221.37 4,213.19 0.00 0.00 0.00 0.00 15,000.00 89.86 359.66 9,808.86 4,409.79 221.97 4,113.22 0.00 0.00 0.00 15,000 89.86 359.66 9,808.69 4,409.79 221.77 4,313.16 0.00 0.00 0.00 0.00 15,000 89.86 359.66 9,808.69 4,409.79 221.77 4,313.16 0.00 0.00 0.00 0.00 0.00 15,000 89.86 359.66 9,808.69 4,409.79 221.77 4,413.12 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0				•	•					
13,500.00       89.86       359.66       9,804.65       2,709.82       230.39       2,713.65       0.00       0.00       0.00         13,600.00       89.86       359.66       9,804.89       2,809.82       229.79       2,813.62       0.00       0.00       0.00         13,700.00       89.86       359.66       9,805.12       2,909.82       229.19       2,913.58       0.00       0.00       0.00         13,800.00       89.86       359.66       9,805.36       3,009.81       228.58       3,013.55       0.00       0.00       0.00         13,900.00       89.86       359.66       9,805.84       3,209.81       227.98       3,113.52       0.00       0.00       0.00         14,000.00       89.86       359.66       9,806.08       3,309.81       227.38       3,213.49       0.00       0.00       0.00         14,200.00       89.86       359.66       9,806.08       3,309.81       226.78       3,313.46       0.00       0.00       0.00         14,200.00       89.86       359.66       9,806.55       3,509.80       225.58       3,513.40       0.00       0.00       0.00         14,500.00       89.86       359.66       9,807.50				•						
13,600.00       89,86       359,66       9,804.89       2,809.82       229.79       2,813.62       0.00       0.00       0.00         13,700.00       89.86       359.66       9,805.12       2,909.82       229.19       2,913.58       0.00       0.00       0.00         13,800.00       89.86       359.66       9,805.60       3,009.81       228.58       3,013.55       0.00       0.00       0.00         13,900.00       89.86       359.66       9,805.60       3,109.81       227.98       3,113.52       0.00       0.00       0.00         14,000.00       89.86       359.66       9,806.08       3,309.81       227.38       3,213.49       0.00       0.00       0.00         14,100.00       89.86       359.66       9,806.08       3,309.81       226.78       3,313.46       0.00       0.00       0.00         14,200.00       89.86       359.66       9,806.55       3,509.80       225.58       3,513.40       0.00       0.00       0.00         14,400.00       89.86       359.66       9,806.79       3,609.80       224.98       3,613.37       0.00       0.00       0.00         14,500.00       89.86       359.66       9,807.03	· ·		350.66	0.804.65	2 709 82	230.39	2 713 65	0.00	0.00	0.00
13,700.00       89.86       359.66       9,805.12       2,909.82       229.19       2,913.58       0.00       0.00       0.00         13,800.00       89.86       359.66       9,805.36       3,009.81       228.58       3,013.55       0.00       0.00       0.00         13,900.00       89.86       359.66       9,805.60       3,109.81       227.98       3,113.52       0.00       0.00       0.00         14,000.00       89.86       359.66       9,806.84       3,209.81       227.38       3,213.49       0.00       0.00       0.00         14,100.00       89.86       359.66       9,806.08       3,309.81       226.78       3,313.46       0.00       0.00       0.00         14,200.00       89.86       359.66       9,806.31       3,409.81       226.18       3,413.43       0.00       0.00       0.00         14,300.00       89.86       359.66       9,806.55       3,509.80       225.58       3,513.40       0.00       0.00       0.00         14,500.00       89.86       359.66       9,807.03       3,709.80       224.98       3,613.37       0.00       0.00       0.00         14,600.00       89.86       359.66       9,807.27	•				•					
13,800.00       89.86       359.66       9,805.36       3,009.81       228.58       3,013.55       0.00       0.00       0.00         13,900.00       89.86       359.66       9,805.60       3,109.81       227.98       3,113.52       0.00       0.00       0.00         14,000.00       89.86       359.66       9,805.84       3,209.81       227.38       3,213.49       0.00       0.00       0.00         14,100.00       89.86       359.66       9,806.08       3,309.81       226.78       3,313.46       0.00       0.00       0.00         14,200.00       89.86       359.66       9,806.55       3,509.80       225.58       3,513.40       0.00       0.00       0.00         14,400.00       89.86       359.66       9,806.79       3,609.80       225.58       3,513.40       0.00       0.00       0.00         14,500.00       89.86       359.66       9,807.03       3,709.80       224.98       3,613.37       0.00       0.00       0.00         14,600.00       89.86       359.66       9,807.27       3,809.80       224.38       3,713.34       0.00       0.00       0.00         14,700.00       89.86       359.66       9,807.50										
13,900.00       89.86       359.66       9,805.60       3,109.81       227.98       3,113.52       0.00       0.00       0.00         14,000.00       89.86       359.66       9,805.84       3,209.81       227.38       3,213.49       0.00       0.00       0.00         14,100.00       89.86       359.66       9,806.08       3,309.81       226.78       3,313.46       0.00       0.00       0.00         14,200.00       89.86       359.66       9,806.31       3,409.81       226.18       3,413.43       0.00       0.00       0.00         14,300.00       89.86       359.66       9,806.55       3,509.80       225.58       3,513.40       0.00       0.00       0.00         14,400.00       89.86       359.66       9,806.79       3,609.80       224.98       3,613.37       0.00       0.00       0.00         14,500.00       89.86       359.66       9,807.03       3,709.80       224.38       3,713.34       0.00       0.00       0.00         14,600.00       89.86       359.66       9,807.50       3,909.79       223.17       3,813.31       0.00       0.00       0.00         14,800.00       89.86       359.66       9,807.98	1 '				,			0.00		
14,100.00       89.86       359.66       9,806.08       3,309.81       226.78       3,313.46       0.00       0.00       0.00         14,200.00       89.86       359.66       9,806.31       3,409.81       226.18       3,413.43       0.00       0.00       0.00         14,300.00       89.86       359.66       9,806.55       3,509.80       225.58       3,513.40       0.00       0.00       0.00         14,400.00       89.86       359.66       9,806.79       3,609.80       224.98       3,613.37       0.00       0.00       0.00         14,500.00       89.86       359.66       9,807.03       3,709.80       224.38       3,713.34       0.00       0.00       0.00         14,600.00       89.86       359.66       9,807.27       3,809.80       223.77       3,813.31       0.00       0.00       0.00         14,700.00       89.86       359.66       9,807.50       3,909.79       223.17       3,913.28       0.00       0.00       0.00         14,800.00       89.86       359.66       9,807.74       4,009.79       222.57       4,013.25       0.00       0.00       0.00         15,000.00       89.86       359.66       9,808.94	1	89.86	359.66	9,805.60	3,109.81	227.98	3,113.52	0.00	0.00	0.00
14,100.00       89.86       359.66       9,806.08       3,309.81       226.78       3,313.46       0.00       0.00       0.00         14,200.00       89.86       359.66       9,806.31       3,409.81       226.18       3,413.43       0.00       0.00       0.00         14,300.00       89.86       359.66       9,806.55       3,509.80       225.58       3,513.40       0.00       0.00       0.00         14,400.00       89.86       359.66       9,806.79       3,609.80       224.98       3,613.37       0.00       0.00       0.00         14,500.00       89.86       359.66       9,807.03       3,709.80       224.38       3,713.34       0.00       0.00       0.00         14,600.00       89.86       359.66       9,807.27       3,809.80       223.77       3,813.31       0.00       0.00       0.00         14,700.00       89.86       359.66       9,807.50       3,909.79       223.17       3,913.28       0.00       0.00       0.00         14,800.00       89.86       359.66       9,807.74       4,009.79       222.57       4,013.25       0.00       0.00       0.00         15,000.00       89.86       359.66       9,808.94	14.000.00	89.86	359.66	9,805.84	3,209.81	227.38	3,213.49	0.00	0.00	0.00
14,200.00       89.86       359.66       9,806.31       3,409.81       226.18       3,413.43       0.00       0.00       0.00         14,300.00       89.86       359.66       9,806.55       3,509.80       225.58       3,513.40       0.00       0.00       0.00         14,400.00       89.86       359.66       9,806.79       3,609.80       224.98       3,613.37       0.00       0.00       0.00         14,500.00       89.86       359.66       9,807.03       3,709.80       224.38       3,713.34       0.00       0.00       0.00         14,600.00       89.86       359.66       9,807.27       3,809.80       223.77       3,813.31       0.00       0.00       0.00         14,700.00       89.86       359.66       9,807.50       3,909.79       223.17       3,913.28       0.00       0.00       0.00         14,800.00       89.86       359.66       9,807.74       4,009.79       222.57       4,013.25       0.00       0.00       0.00         14,900.00       89.86       359.66       9,807.98       4,109.79       221.97       4,113.22       0.00       0.00       0.00         15,000.00       89.86       359.66       9,808.46				9,806.08			3,313.46	0.00	0.00	0.00
14,400.00       89.86       359.66       9,806.79       3,609.80       224.98       3,613.37       0.00       0.00       0.00         14,500.00       89.86       359.66       9,807.03       3,709.80       224.38       3,713.34       0.00       0.00       0.00         14,600.00       89.86       359.66       9,807.27       3,809.80       223.77       3,813.31       0.00       0.00       0.00         14,700.00       89.86       359.66       9,807.50       3,909.79       223.17       3,913.28       0.00       0.00       0.00         14,800.00       89.86       359.66       9,807.74       4,009.79       222.57       4,013.25       0.00       0.00       0.00         14,900.00       89.86       359.66       9,807.98       4,109.79       221.97       4,113.22       0.00       0.00       0.00         15,000.00       89.86       359.66       9,808.22       4,209.79       221.37       4,213.19       0.00       0.00       0.00         15,100.00       89.86       359.66       9,808.46       4,309.79       220.77       4,313.16       0.00       0.00       0.00         15,200.00       89.86       359.66       9,808.69	1		359.66							
14,500.00       89.86       359.66       9,807.03       3,709.80       224.38       3,713.34       0.00       0.00       0.00         14,600.00       89.86       359.66       9,807.27       3,809.80       223.77       3,813.31       0.00       0.00       0.00         14,700.00       89.86       359.66       9,807.50       3,909.79       223.17       3,913.28       0.00       0.00       0.00         14,800.00       89.86       359.66       9,807.74       4,009.79       222.57       4,013.25       0.00       0.00       0.00         14,900.00       89.86       359.66       9,807.98       4,109.79       221.97       4,113.22       0.00       0.00       0.00         15,000.00       89.86       359.66       9,808.22       4,209.79       221.37       4,213.19       0.00       0.00       0.00         15,100.00       89.86       359.66       9,808.46       4,309.79       220.77       4,313.16       0.00       0.00       0.00         15,200.00       89.86       359.66       9,808.69       4,409.78       220.17       4,413.12       0.00       0.00       0.00										
14,600.00       89.86       359.66       9,807.27       3,809.80       223.77       3,813.31       0.00       0.00       0.00         14,700.00       89.86       359.66       9,807.50       3,909.79       223.17       3,913.28       0.00       0.00       0.00         14,800.00       89.86       359.66       9,807.74       4,009.79       222.57       4,013.25       0.00       0.00       0.00         14,900.00       89.86       359.66       9,807.98       4,109.79       221.97       4,113.22       0.00       0.00       0.00         15,000.00       89.86       359.66       9,808.22       4,209.79       221.37       4,213.19       0.00       0.00       0.00         15,100.00       89.86       359.66       9,808.46       4,309.79       220.77       4,313.16       0.00       0.00       0.00         15,200.00       89.86       359.66       9,808.69       4,409.78       220.17       4,413.12       0.00       0.00       0.00	14,400.00	89.86	359.66	9,806.79	3,609.80	224.98	3,613.37	0.00	0.00	. 0.00
14,600.00       89.86       359.66       9,807.27       3,809.80       223.77       3,813.31       0.00       0.00       0.00         14,700.00       89.86       359.66       9,807.50       3,909.79       223.17       3,913.28       0.00       0.00       0.00         14,800.00       89.86       359.66       9,807.74       4,009.79       222.57       4,013.25       0.00       0.00       0.00         14,900.00       89.86       359.66       9,807.98       4,109.79       221.97       4,113.22       0.00       0.00       0.00         15,000.00       89.86       359.66       9,808.22       4,209.79       221.37       4,213.19       0.00       0.00       0.00         15,100.00       89.86       359.66       9,808.46       4,309.79       220.77       4,313.16       0.00       0.00       0.00         15,200.00       89.86       359.66       9,808.69       4,409.78       220.17       4,413.12       0.00       0.00       0.00	14,500.00	89.86	359.66			224.38				
14,800.00     89.86     359.66     9,807.74     4,009.79     222.57     4,013.25     0.00     0.00     0.00       14,900.00     89.86     359.66     9,807.98     4,109.79     221.97     4,113.22     0.00     0.00     0.00       15,000.00     89.86     359.66     9,808.22     4,209.79     221.37     4,213.19     0.00     0.00     0.00       15,100.00     89.86     359.66     9,808.46     4,309.79     220.77     4,313.16     0.00     0.00     0.00       15,200.00     89.86     359.66     9,808.69     4,409.78     220.17     4,413.12     0.00     0.00     0.00										
14,900.00     89.86     359.66     9,807.98     4,109.79     221.97     4,113.22     0.00     0.00     0.00       15,000.00     89.86     359.66     9,808.22     4,209.79     221.37     4,213.19     0.00     0.00     0.00       15,100.00     89.86     359.66     9,808.46     4,309.79     220.77     4,313.16     0.00     0.00     0.00       15,200.00     89.86     359.66     9,808.69     4,409.78     220.17     4,413.12     0.00     0.00     0.00					,					
15,000.00 89.86 359.66 9,808.22 4,209.79 221.37 4,213.19 0.00 0.00 0.00 15,100.00 89.86 359.66 9,808.46 4,309.79 220.77 4,313.16 0.00 0.00 0.00 15,200.00 89.86 359.66 9,808.69 4,409.78 220.17 4,413.12 0.00 0.00 0.00										
15,100.00 89.86 359.66 9,808.46 4,309.79 220.77 4,313.16 0.00 0.00 0.00 15,200.00 89.86 359.66 9,808.69 4,409.78 220.17 4,413.12 0.00 0.00 0.00	14,900.00	89.86	359.66	9,807.98	4,109.79	221.97	4,113.22	0.00	0.00	0.00
15,100.00 89.86 359.66 9,808.46 4,309.79 220.77 4,313.16 0.00 0.00 0.00 15,200.00 89.86 359.66 9,808.69 4,409.78 220.17 4,413.12 0.00 0.00 0.00	15,000.00	89.86								
			359.66		4,309.79					
	1									
15,300.00 89.86 359.66 9,808.93 4,509.78 219.57 4,513.09 0.00 0.00 0.00										
15,400.00 89.86 359.66 9,809.17 4,609.78 218.96 4,613.06 0.00 0.00 0.00	15,400.00	89.86	359.66	9,809,17	4,609.78	218.96	4,613.06	0.00	0.00	0.00
15,500.00 89.86 359.66 9,809.41 4,709.78 218.36 4,713.03 0.00 0.00 0.00	15,500.00	89.86		9,809.41	4,709.78					
15,600.00 89.86 359.66 9,809.65 4,809.78 217.76 4,813.00 0.00 0.00 0.00	15,600.00	89.86	359.66	9,809.65	4,809.78	217.76	4,813.00	0.00	. 0.00	0.00

### Оху

### Planning Report

Database: Company: Project: Site: Well: Wellbore:

HOPSPP

ENGINEERING DESIGNS

PRD NM DIRECTIONAL PLANS (NAD 1983)

OXBOW CC 17-08 FED COM

Oxbow CC 17-08 Federal Com 35H

WB00

Design:ស្សារ៉ូក្រែស្វែ Permitting Plan Local Co-ordinate Reference:
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:

Well Oxbow CC 17-08 Federal Com 35H

RKB=26.5' @ 2953.00ft

RKB=26.5' @ 2953.00ft

Grid

Minimum Curvature

The same of the sa		an article recognition can	CONTRACTOR OF CO	THE RESERVE OF THE PERSON NAMED IN	THE RESERVE AND TRANSPORTED TO	CONTRACTOR AND ADDRESS OF THE PARTY OF THE P	7 1-14 1-72 AT 15 ES 72	PENTLANCE TOOL LAND	PAPEL CENTRAL TANKS
Planned Survey	Land At The Banks Wall	an estatut reconstruct car	THE ENGLISHMENT	The factor of the standard and the standard of	A. A	N. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10		1 2 11 1 St. Tat. (240 t. amor)	
	THE THE THEFT	THE PROPERTY OF THE PARTY OF TH	WIED WITH	TO THE PERSON OF	STERREST OF	<b>经验证证明</b>	ASSETT OF THE PARTY.	<b>对种种类的元</b>	<b>"在这种性的是一种</b>
the Carlos of the			<b>的是是是是</b>	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3		Vertical /	"Dogleg	Build	Turn
Measured *	45 TO 18	162,0177,357	Vertical	THE PARTY OF THE	加加加加加加				
Depth Depth	inclination	Azimuth 🛪	Depth	+N/-S	+E/-W*: :	Section	Rate 👾	Rate	Rate
(ft)等。	(f) (f)		(ft) (ft)	Ca(ti) Fig. 2	(* (ft))***********************************	(ft)( * * * * * * * * * * * * * * * * * * *	11 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	(°/100ft)	(°/100ft)
<b>"我们是这种企业</b>	THE ELLE	CAMP VERMEN	"验好"之"沙娃"	了。这些"是性难象		CHARLETTE	P. S. Land Berger		The Plant of the Control of
15,700.00	89.86	359.66	9,809.89	4,909.77	217.16	4,912.97	0.00	0.00	0.00
15,800.00	89.86	359.66	9,810,12	5,009.77	216.56	5,012.94	0.00	0.00	· 0.00
15,900.00	89.86	359.66	9,810.36	5,109.77	215.96	5,112.91	0.00	0.00	0.00
'									
16,000.00	89.86	359.66	9,810.60	5,209.77	215.36	5,212.88	0.00	0.00	0.00
16,100.00	89.86	359.66	9,810.84	5,309.77	214.76	5,312.85	0.00	0.00	0.00
16,200.00	89.86	359.66	9,811.08	5,409.76	214.15	5,412.82	0.00	0.00	0.00
16,300.00	89.86	359.66	9,811,31	5,509.76	213.55	5,512.79	0.00	0.00	0.00
16,400.00	89.86	359.66	9,811.55	5,609.76	212.95	5,612.76	0.00	0.00	0.00
				·					
16,500.00	89.86	359.66	9,811.79	5,709.76	212.35	5,712.73	0.00	0.00	0.00
16,600.00	89.86	359.66	9,812.03	5,809.76	211.75	5,812.69	0.00	0.00	0.00
16,700.00	89.86	359.66	9,812.27	5,909.75	211.15	5,912.66	0.00	0.00	0.00
16,800.00	89.86	359.66	9,812.50	6,009.75	210.55	6,012.63	0.00	0.00	0.00
16,900.00	89.86	359.66	9,812.74	6,109.75	209.95	6,112.60	0.00	0.00	0.00
			,	·					· 1
17,000.00	89.86	359.66	9,812.98	6,209.75	209.35	6,212.57	0.00	0.00	0.00
17,100.00	89.86	359.66	9,813.22	6,309.74	208.74	6,312.54	0.00	0.00	0.00
17,200.00	89.86	359.66	9,813.46	6,409.74	208.14	6,412.51	0.00	0.00	0.00
17,300.00	89.86	359.66	9,813.69	6,509.74	207.54	6,512.48	0.00	0.00	0.00
17,400.00	89.86	359.66	9,813.93	6,609.74	206.94	6,612.45	0.00	0.00	0.00
1			·	7					2.22
17,500.00	89.86	359.66	9,814.17	6,709.74	206.34	6,712.42	0.00	0.00	0.00
17,600.00	89.86	359.66	9,814.41	6,809.73	205.74	6,812.39	0.00	0.00	0.00
17,700.00	89.86	359.66	9,814.65	6,909.73	205.14	6,912.36	0.00	0.00	0.00
17,800.00	89.86	359.66	9,814.88	7,009.73	204.54	7,012.33	0.00	. 0.00	0.00
17,900.00	89.86	359.66	9,815.12	7,109.73	203.93	7,112.30	0.00	0.00	0.00
1 .									
18,000.00	89.86	359.66	9,815.36	7,209.73	203.33	7,212.26	0.00	0.00	0.00
18,100.00	89.86	359.66	9,815.60	7,309.72	202.73	7,312.23	0.00	0.00	0.00
18,200.00	89.86	359.66	9,815.84	7,409.72	202.13	7,412.20	0.00	0.00	0.00
18,300.00	89.86	359.66	9,816.07	7,509.72	201.53	7,512.17	0.00	0.00	0.00
18,400.00	89.86	359.66	9,816.31	7,609.72	200.93	7,612.14	0.00	0.00	0.00
							0.00	0.00	0.00
18,500.00	89.86	359.66	9,816.55	7,709.72	200.33	7,712.11	0.00	0.00	0.00
18,600.00	89.86	359.66	9,816.79	7,809.71	199.73	7,812.08	0.00	0.00	0.00
18,700.00	89.86	359.66	9,817.03	7,909.71	199.12	7,912.05	0.00	0.00	0.00
18,800.00	89.86	359.66	9,817.27	8,009.71	198.52	8,012.02	. 0.00	0.00	0.00
18,900.00	89.86	359.66	9,817.50	8,109.71	197.92	8,111.99	0.00	0.00	0.00
1					407.00	0.044.00	0.00	0.00	0.00
19,000.00	89.86	359.66	9,817.74	8,209.71	197.32	8,211.96		0.00	0.00
19,100.00	89.86	359.66	9,817.98	8,309.70	196.72	8,311.93	0.00	0.00	0.00
19,200.00	89.86	359.66	9,818.22	8,409.70	196.12	8,411.90	0.00	0.00	0.00
19,300.00	89.86	359.66	9,818.46	8,509.70	195.52	8,511.87	0.00	0.00	0.00
19,400.00	89.86	359.66	9,818.69	8,609.70	194.92	8,611.83	0.00	0.00	0.00
40 500 00	00.00	250.66	9,818.93	8,709.69	194.31	8,711.80	0.00	0.00	0.00
19,500.00	89.86	359.66							
19,600.00	89.86	359.66	9,819.17	8,809.69	193.71	8,811.77	0.00	0.00	0.00
19,700.00	89.86	359.66	9,819.41	8,909.69	193.11	8,911.74	0.00	0.00	0.00
19,800.00	, 89.86	359.66	9,819.65	9,009.69	192.51	9,011.71	0.00	0.00	0.00
19,900.00	. 89.86	359.66	9,819.88	9,109.69	191.91	9,111.68	0.00	0.00	0.00
00.000.00	00.00	250.66	0.920.42	9,209.68	191.31	9,211.65	0.00	0.00	0.00
20,000.00	89.86	359.66	9,820.12			9,211.63		0.00	0.00
20,100.00	89.86	359.66	9,820.36	9,309.68	190.71		0.00		
20,200.00	89.86	359.66	9,820.60	9,409.68	190.11	9,411.59	0.00	0.00	0.00
20,300.00	89.86	359.66	9,820.84	9,509.68	189.50	9,511.56	0.00	0.00	0.00
20,400.00	89.86	359.66	9,821.07	9,609.68	188.90	9,611.53	0.00	0.00	0.00
i i				0.700.07		0.744.50	0.00	0.00	0.00
20,500.00	89.86	359.66	9,821.31	9,709.67	188.30	9,711.50	0.00		
20,600.00	89.86	359.66	9,821.55	9,809.67	187.70	9,811.47	0.00	0.00	0.00
20,700.00	89.86	359.66	9,821.79	9,909.67	187.10	9,911.44	0.00	0.00	0.00
20,788.98	89.86	359.66	9,822.00	9,998.65	186.57	10,000.39	0.00	0.00	0.00
					···				

### Оху

### Planning Report

Database:

**ENGINEERING DESIGNS** 

PRD NM DIRECTIONAL PLANS (NAD 1983)

Database: Company: Project: Site: Well: Wellbore: Design OXBOW CC 17-08 FED COM

Oxbow CC 17-08 Federal Com 35H

WB00 Permitting Plan Local Co-ordinate Reference: Well Oxbow CC 17-08 Federal Com 35H
TVD Reference: RKB=26.5' @ 2953.00ft
MD'Reference: RKB=26.5' @ 2953.00ft
North Reference: Grid Survey,Calculation Method:

Minimum Curvature

Design Targets  Target(Namehit/miss/targetDip	Angle Di	p Dir. (°)		+N.S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft) Latitude	Longitude
FTP (Oxbow CC 17-8 - plan hits target center - Point	0.00	0.00	9,797.00	-502.37	249.70	440,492.15	644,070.61 32° 12' 37.992291	N 104° 0' 4.186537 W
PBHL (Oxbow CC - plan hits target center - Point	0.00	0.00	9,822.00	9,998.65	186.57	450,992.32	644,007.48 32° 14' 21.902820	N 104° 0' 4.543628 W

Plan Annotations  Measured  Depth  (ft)	Vertical Depth (ft)	Local Coord +N/-S (ft)	inates +E/-W (ft)	Comment
3,653.00	3,653.00	0.00	0.00	Build 2.00°/100'
4,453.13	4,442.77	-108.87	21.68	Hold 16.00° Tangent
7,956.43	7,810.31	-1,056.06	210.34	Turn 2.00°/100'
9,549.11	9,381.97	-1,051 <i>.</i> 76	253.00	KOP, Build 10.00°/100'
10,287.74	9,797.00	-502.37	249.70	Landing Point
20,788.98	9,822.00	9,998.65	186.57	TD at 20788.98' MD



Project: PRD NM DIRECTIONAL PLANS (NAD 1983)

Site: OXBOW CC 17-08 FED COM Well: Oxbow CC 17-08 Federal Com 35H

Wellbore: WB00

Design: Permitting Plan

PROJECT DETAILS: NM DIRECTIONAL PLANS (NAD 1983)

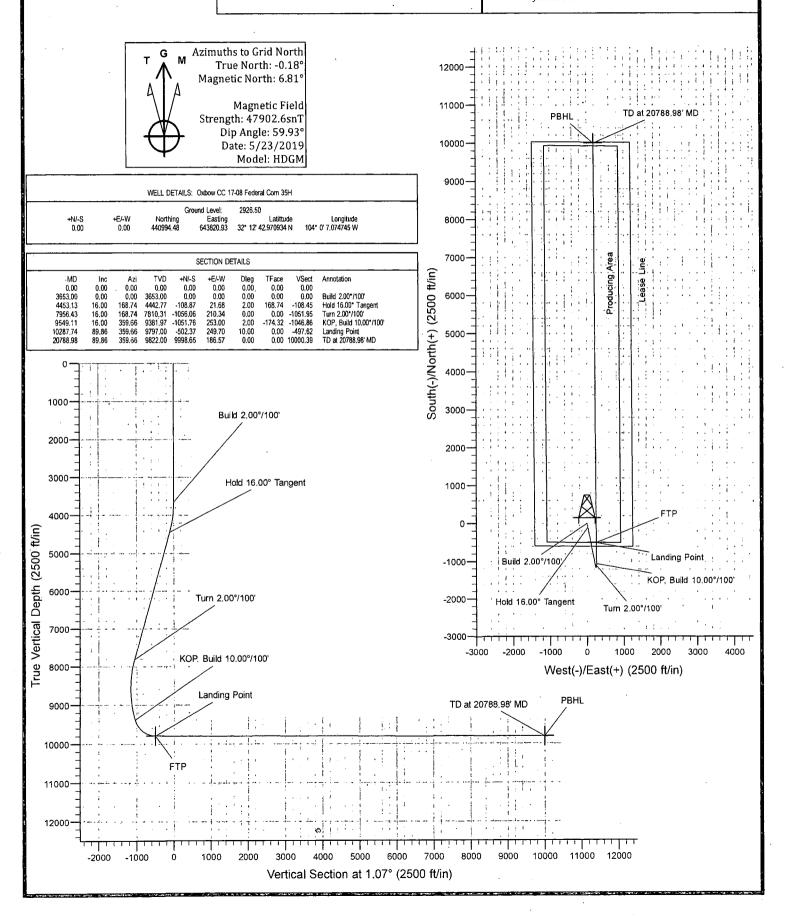
Geodetic System: US State Plane 1983

Datum: North American Datum 1983

Ellipsoid: GRS 1980

Zone: New Mexico Eastern Zone

System Datum: Mean Sea Level



1. Geologic Formations

TVD of target	9822'	Pilot Hole Depth	N/A
MD at TD:	20788'	Deepest Expected fresh	291!
WID at 1D.	20700	water:	

### **Delaware Basin**

Formation	TVD - RKB	<b>Expected Fluids</b>
Rustler	291	
Salado	610	Salt
Castile	1,267	Salt
Lamar/Delaware	2,825	Oil/Gas/Brine
Bell Canyon	2,897	Oil/Gas/Brine
Cherry Canyon	3,752	Oil/Gas/Brine
Brushy Canyon	5,006	Losses
Bone Spring	6,638	Oil/Gas
1st Bone Spring	7,552	Oil/Gas
2nd Bone Spring	8,349	Oil/Gas
3rd Bone Spring	9,489	Oil/Gas

<sup>\*</sup>H2S, water flows, loss of circulation, abnormal pressures, etc.

### 2. Casing Program

									Duoyant	Dubyant
設力を行う	Casing Int	erval	Csg. Size	Weight	A TO		SFO SFO	SF Burst	Body SF	Joint SF
Hole Size (in)	From (ft)	To (ft)	(in)	(lbs)	Grade	" Conn.	Collapse	or bunt	Tension	Tension
14.75	0	550	10.75	40.5	J-55	BTC	1.125	1.2	1.4	1.4
9.875	0	9449	7.625	26.4	L-80 HC	BTC	· 1.125	1.2	1.4	1.4
6.75	0 .	20788	. 5.5	20	P-110	DQX	1.125	1.2	1.4	1.4
	•				-		SF Value	s will meet	or Exceed	

All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.h

\*Oxy requests the option to set casing shallower yet still below the salts if losses or hole conditions require this. Cement volumes may be adjusted if casing is set shallower and a DV tool may be run in case hole conditions merit pumping a second stage cement job to comply with permitted top of cement. If cement circulated to surface during first stage, we will drop a cancelation cone and not pump the second stage.

\*Oxy requests the option to run production casing with DQX, SF TORQ, and/or DQW TORQ connections to accommodate hole conditions or drilling operations.

### **Annular Clearance Variance Request**

As per the agreement reached in the Oxy/BLM face-to-face meeting on Feb 22, 2018, Oxy requests permission to allow deviation from the 0.422" annular clearance requirement from Onshore Order #2 under the following conditions:

- 1. Annular clearance to meet or exceed 0.422" between intermediate casing ID and production casing coupling only on the first 500' overlap between both casings.
- 2. Annular clearance less than 0.422" is acceptable for the curve and lateral portions of the production open hole section.

	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	. Y
Does casing meet API specifications? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	Y
Does the above casing design meet or exceed BLM's minimum standards? If not provide	***
justification (loading assumptions, casing design criteria).	Y
Will the intermediate pipe be kept at a minimum 1/3 fluid filled to avoid approaching	<b>3</b> 7
the collapse pressure rating of the casing?	Y
	,
Is well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	
Is well within the designated 4 string boundary.	
Is well located in SOPA but not in R-111-P?	N
If yes, are the first 2 strings cemented to surface and 3 <sup>rd</sup> string cement tied back	
500' into previous casing?	
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Is well located in R-111-P and SOPA?	N
If yes, are the first three strings cemented to surface?	
Is 2 <sup>nd</sup> string set 100' to 600' below the base of salt?	
e de la companya del companya de la companya de la companya del companya de la companya del la companya del la companya de la	START STATE
Is well located in high Cave/Karst?	N
If yes, are there two strings cemented to surface?	
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	

### 3. Cementing Program

Casing String	#ISks-7	Wt ((lb/gal)	Yld (ft:3/sack)	H20 (gal/sk)	500# Comp Strength (hours)	Slurry Description
Surface (Lead)	N/A	N/A	N/A	N/A	N/A	N/A
Surface (Tail)	447	14.8	1.33	6.365	5:26	Class C Cement, Accelerator
Intermediate 1st Stage (Lead)	N/A	N/A	N/A	N/A	N/A	N/A
Intermediate 1st Stage (Tail)	580	13.2	1.65	8.640	11:54	Class H Cement, Retarder, Dispersant, Salt
Intermediate 2nd Stage Intermediate 2nd Stage (Lead)	(Tail Shurry) t	o be pumped a	ns Bradenhead	l Squeeze from	n surface, dow	vn the Intermediate annulus
Intermediate 2nd Stage (Tail)	647	12.9	1.92	10.41	23:10	Class C Cement, Accelerator
						N/A
Production (Lead)	N/A	N/A	N/A	N/A	N/A	
Production (Tail)	868	13.2	1.38	6.686	3:39	Class H Cement, Retarder, Dispersant, Salt

Casing String	Top (ft)	Bottom (ft)	% Excess
Surface (Lead)	N/A	N/A	N/A
Surface (Tail)	0	550	100%
Intermediate 1st Stage (Lead)	N/A	N/A	N/A
Intermediate 1st Stage (Tail)	5256	9449	5%
Intermediate 2nd Stage (Lead)	N/A	N/A	N/A
Intermediate 2nd Stage (Tail)	0	5256	10%
Production (Lead)	N/A	N/A	N/A
Production (Tail)	8949	20788	20%

### **Offline Cementing**

Oxy requests a variance to cement the 9.625" and/or 7.625" intermediate casing strings offline in accordance to the approved variance, EC Tran 461365.

The summarized operational sequence will be as follows:

- 1. Run casing as per normal operations. While running casing, conduct negative pressure test and confirm integrity of the float equipment (float collar and shoe).
- 2. Land casing.
- 3. Fill pipe with kill weight fluid, and confirm well is static.
  - a. If well is not static notify BLM and kill well.
  - b. Once well is static notify BLM with intent to proceed with nipple down and offline cementing.
- 4. Set and pressure test annular packoff.
- 5. After confirmation of both annular barriers and internal barriers, nipple down BOP and install cap flange. If any barrier fails to test, the BOP stack will not be nippled down until after the cement job is completed.
- 6. Skid rig to next well on pad.
- 7. Confirm well is static before removing cap flange.
- 8. If well is not static notify BLM and kill well prior to cementing or nippling up for further remediation.

- 9. Install offline cement tool.
- 10. Rig up cement equipment.
  - a. Notify BLM prior to cement job.
- 11. Perform cement job.
- 12. Confirm well is static and floats are holding after cement job.
- 13. Remove cement equipment, offline cement tools and install night cap with pressure gauge for monitoring.

### 4. Pressure Control Equipment

BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Type			Tested to	
		3M	Annula	ır	<b>√</b>	70% of working pressure	
0.055877.1	12.5/0"		Blind R	am	✓		
9.875" Hole	13-5/8"	3M	Pipe Ram			250 mai / 2000 mai	
			Double Ram		✓ .	250 psi / 3000 psi	
			Other*				
		5M	Annula	ar	✓	70% of working pressure	
C TENTE 1	12 5/0"		Blind Ram		✓		
6.75" Hole	13-5/8"	5M	Pipe Ram			250 psi / 5000 psi	
			Double I	Double Ram ✓		250 psi / 5000 psi	
			Other*				

<sup>\*</sup>Specify if additional ram is utilized.

Oxy will utilize a 5M annular with a 10M BOPE stack. The BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per Onshore Order 2 requirements. 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.

Pipe rams will be operationally checked each 24 hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets. Other accessories to the BOP equipment will include a Kelly cock and floor safety valve (inside BOP) and choke lines and choke manifold. See attached schematics.

Formation integrity test will be performed per Onshore Order #2.  On Exploratory wells or 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. Will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.i.			
1	iance is requested for the use of a flexible choke line from the BOP to Choke fold. See attached for specs and hydrostatic test chart.		
Y Are anchors required by manufacturer?			
A multibowl or a unionized multibowl wellhead system will be employed. The wellhead and connection to the BOPE will meet all API 6A requirements. The BOP will be tested			

per Onshore Order #2 after installation on the surface casing which will cover testing requirements for a maximum of 30 days. If any seal subject to test pressure is broken the system must be tested. We will test the flange connection of the wellhead with a test port that is directly in the flange. We are proposing that we will run the wellhead through the rotary prior to cementing surface casing as discussed with the BLM on October 8, 2015. See attached schematics.

### **BOP Break Testing Request**

As per the agreement reached in the Oxy/BLM face-to-face meeting on Feb 22, 2018, Oxy requests permission to allow BOP Break Testing under the following conditions:

- After a full BOP test is conducted on the first well on the pad.
- When skidding to drill an intermediate section that does not penetrate into the Wolfcamp.
- Full BOP test will be required prior to drilling any production hole.

### 5. Mud Program

From (ft)	pth To (ft)	Type	Weight (ppg)	Viscosity	Water Loss
0	550	Water-Based Mud	8.6-8.8	40-60	N/C
550	9449	Saturated Brine- Based or Oil-Based Mud	8.0-10.0	35-45	N/C
,9449	20788	Water-Based or Oil- Based Mud	9.5-12.0	38-50	N/C

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times. The following is a general list of products: Barite, Bentonite, Gypsum, Lime, Soda Ash, Caustic Soda, Nut Plug, Cedar Fiber, Cotton Seed Hulls, Drilling Paper, Salt Water Clay, CACL2. Oxy will use a closed mud system.

What will be used to monitor the loss or gain	PVT/MD Totco/Visual Monitoring
of fluid?	

### 6. Logging and Testing Procedures

Logg	ing, Coring and Testing
Yes	Will run GR from TD to surface (horizontal well – vertical portion of hole). Stated logs
	run will be in the Completion Report and submitted to the BLM.
No	Logs are planned based on well control or offset log information.
No	Drill stem test? If yes, explain
No	Coring? If yes, explain

Additional logs planned Interval					
No	Resistivity	·			
No	Density				
No	CBL				
Yes	Mud log	ICP - TD			
No	PEX				

### 7. Drilling Conditions

Condition C	Specify what type and where?
BH Pressure at deepest TVD	6129 psi
Abnormal Temperature	No
BH Temperature at deepest TVD	159°F

Pump high viscosity sweeps as needed for hole cleaning. The mud system will be monitored visually/manually as well as with an electronic PVT. The necessary mud products for additional weight and fluid loss control will be on location at all times. Appropriately weighted mud will be used to isolate potential gas, oil, and water zones until such time as casing can be cemented into place for zonal isolation.

Hydrogen Sulfide (H2S) monitors will be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the operator will comply with the provisions of Onshore Oil and Gas Order #6. If Hydrogen Sulfide is encountered, measured values and formations will be provided to the BLM.

N H2S is present
Y H2S Plan attached

### 8. Other facets of operation

	Yes/No	
Will the well be drilled with a walking/skidding operation? If yes, describe.		
• We plan to drill the five well pad in batch by section: all surface sections,		
intermediate sections and production sections. The wellhead will be		
secured with a night cap whenever the rig is not over the well.		
Will more than one drilling rig be used for drilling operations? If yes, describe.		
Oxy requests the option to contract a Surface Rig to drill, set surface		
casing, and cement for this well. If the timing between rigs is such that	-	
Oxy would not be able to preset surface, the Primary Rig will MIRU and		
drill the well in its entirety per the APD. Please see the attached document		
for information on the spudder rig.		

Total estimated cuttings volume: 1461.1 bbls.

### Attachments

- \_x\_\_ Directional Plan
- \_x\_\_ H2S Contingency Plan
- \_x\_\_ Flex III Attachments
- x Spudder Rig Attachment
  x Premium Connection Specs

### 9. Company Personnel

2 · · · · · · · · · · · · · · · · · · ·					
Name	<u>Title</u>	Office Phone	Mobile Phone		
Ben Pelton	Drilling Engineer	713-497-2379	701-690-8645		
Margaret Giltner	Drilling Engineer Supervisor	713-366-5026	210-683-8480		
Simon Benavides	Drilling Superintendent	713-522-8652	281-684-6897		
Diego Tellez	Drilling Manager	713-350-4602	713-303-4932		