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orm 3160-5 uugust 2007) DE	UNITED STATES PARTMENT OF THE IN	TERIOR	•	FORM OMB N Expires:	APPROVED O. 1004-0135 July 31, 2010
SUNDRY-	NOTICES AND REPOR	TS ON WELLS	D Artesta	5. Lease Serial No. MMNM06245	
abandoned wel	l. Use form 3160-3 (APD)) for such proposals.	•	5. If Indian, Allottee of	or Tribe Name
SUBMIT IN TRII	PLICATE - Other instructi	ions on reverse side.		7. If Unit or CA/Agre	ement, Name and/or No.
. Type of Well Soli Well Gas Well Oth	ier ·		_	3. Well Name and No. IVORE 35 FEDE	RAL COM 2H
2. Name of Operator OXY USA WTP LP	Contact: J, E-Mail: janalyn_men	ANA MENDIOLA idiola@oxy.com		9. API Well No. 30-015-41409-0	00-X1 ·
3a. Address HOUSTON, TX 77210		3b. Phone No. (include area cod Ph: 432-685-5936 Fx: 432-685-5742	ie)	IO. Field and Pool, or LEO	Exploratory
Location of Well (Footage, Sec., T.	., R., M., or Survey Description)			11. County or Parish,	and State
Sec 35 T18S R30E SENE 157	75FNL 75FEL			EDDY COUNT	Y, NM
12. CHECK APPF	ROPRIATE BOX(ES) TO	INDICATE NATURE OF	F NOTICE, REF	ORT, OR OTHE	R DATA
TYPE OF SUBMISSION		TYPE	OF ACTION		<u>, , , , , , , , , , , , , , , , , , , </u>
Notice of Intent	🗋 Acidize	Deepen	Productio	n (Start/Resume)	U Water Shut-Off
☐ Subsequent Report	Alter Casing	Fracture Treat	Reclamat	on	U Well Integrity
🖸 Final Abandonment Notice	Casing Repair	Plug and Abandon		ilv Abandon	Change to Original
	Convert to Injection	Plug Back	U Water Dis	posal	PD
Attach the Bond under which the wor following completion of the involved testing has been completed. Final At determined that the site is ready for finance OXY USA WTP LP, respectful	rk will be performed or provide th operations. If the operation resu- pandonment Notices shall be filed inal inspection.) Ily requests approval for the	ne Bond No. on file with BLM/B lts in a multiple completion or re l only after all requirements, incl e following changes to the	BIA. Required subseccompletion in a ne uding reclamation, drilling plan:	equent reports shall be w interval, a Form 316 have been completed,	e filed within 30 days 60-4 shall be filed once and the operator has
Proposed TD - 13025'M 8455'	'V			NM	OIL CONSERV
1. Request casing design mod 14-3/4" surface hole w/ 10-3/4 hole w/ 5-1/2 & 4-1/2" csg. De	dification, to drill the well wi I" csg, 9-7/8" intermediate I stails are below	th smaller bit sizes: hole w/ 7-5/8" csg and 6-3/	/4" production		ARTESIA DISTRIC
a.Surface Casing		~			
10-3/4" 45.5# J-55 BT&C new	/ csg @ 0-515', 14-3/4" hole	e w/ 8.4# mud S	SEE ATTAC	HED FOR	RECEIVED
Coll Rating (psi)-2090 Burst R	Rating (psi)-3580	Accepted for recol	ONDITIO	NS OF APPI	ROVAL
 I hereby certify that the foregoing is Commit 	s truc and correct. Electronic Submission #3(For OXY U tted to AFMSS for processin	D9739 verified by the BLM W JSA WTP LP, sent to the Ca ng by CHRISTOPHER WALL	Vell Information S arlsbad S on 08/06/2015	System (15CRW0097SE)	
Name (Printed/Typed) DAVID S	TEWART	Title SR. R	REGULATORY	ADVISOR	
Signature (Electronic S	Submission)	Date 07/21	/2015	6 Ph. 69	
	THIS SPACE FO	R FEDERAL OR STAT	E OFFICE US	APPROV	ED
				· · ·	
Approved By		Titla	I I		
Approved By onditions of approval, if any, are attache rifiy that the applicant holds legal or equinich would entitle the applicant to condu	d. Approval of this notice does n uitable title to those rights in the suct operations thereon.	Title Title Subject lease Office	/:	<mark>AUC 7 20</mark> ፩/ Chris Wa	alls
Approved By onditions of approval, if any, are attache riffy that the applicant holds legal or equ hich would entitle the applicant to condu- itle 18 U.S.C. Section 1001 and Title 43 States any false, fictilious or fraudulent	ed. Approval of this notice does n uitable title to those rights in the s uct operations thereon. U.S.C. Section 1212, make it a c statements or corresponditions as t	Title Title Office	Ind willfully to mak	AUC 720 5/ Chris Wa AUCT LAND MAN	Alls Alle Monthe United

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Additional data for EC transaction #309739 that would not fit on the form

32. Additional remarks, continued

SF Coll-9.31 SF Burst-1.42 SF Ten-5.86

b.Intermediate Casing 7-5/8" 26.4# L80 BT&C new csg @ 0-3600', 9-7/8" hole w/ 10.0# mud

Coll Rating (psi)-3400 Burst Rating (psi)-6020 SF Coll-7.29 SF Burst-1.36 SF Ten-3.33

c.Production Casing 5-1/2" 20# P-110 USF new csg @ 0-8882'M, 6-3/4" hole w/ 9.2# mud Coll Rating (psi)-11100 Burst Rating (psi)-12600 SF Coll-2.67 SF Burst-1.26 SF Ten-2.30

4-1/2" 13.5# P-110 BT&C new csg @ 8882-13025[:]M, 6-3/4" hole w/ 9.2# mud Coll Rating (psi)-10670 Burst Rating (psi)-12410 SF Coll-2.57 SF Burst-1.25 SF Ten-2.85

Collapse and burst loads calculated using Stress Check with anticipated loads, see attached for design assumptions

2. Cement program adjustment to the new bit/casing sizes. Cement program modifications detailed below.

a. Surface - Circulate cement to surface w/ 550sx PP cmt w/ 2% CaCl2, 14.8ppg 1.35 yield 1415# 24hr CS 150% Excess.

b. Intermediate - Circulate cement to surface w/ 750sx HES light PP cmt w/ 5% Salt + .1% HR-800, 12.9ppg 1.85 yield 824# 24hs CS 125% Excess followed by 200sx PP cmt, 14.8ppg 1.33 yield 1789# 24hr CS 125% Excess.

c. Production - Cement w/ 160sx Tuned Light (TM) system cmt w/ 3#/sx Kol-Seal + .125#/sx Poly-E-Flake + .8% HR-601, 10.2ppg 3.05 yield 555# 24hr CS 25% Excess followed by 500sx Super H cmt w/ 3#/sx salt + .1% HR-800 + .3% CFR-3 + .5% Halad(R)-344 + 2#/sx Kol-Seal, 13.2ppg 1.65 yield 1462# 24hr CS 25% Excess. Estimated TOC @ 3100'.

Description of Cement Additives: Calcium Chloride, Salt (Accelerator); CFR-3 (Dispersant); Kol-Seal, Poly-E-Flake (Lost Circulation Additive); Halad-344 (Low Fluid Loss Control); HR-601, HR-800 (Retarder)

The above cement volumes could be revised pending the caliper measurement.

3. Mud Program

Depth	Mud WT	Vis Sec	Fluid Loss	Туре		
0-515	8.5-9.0	40-55	50-75cc/30min	EnerSeal	Spud Mud	(MMH)
515-3600	9.8-10	28-32	NC Na	aCl Brine	•	· ,
3600-TD	8.8-9.6	38-50	50-75cc/30mi	in EnerSe	al (MMH)	

4. The Operator will connect the BOP choke outlet to the choke manifold using a hose that meets all BLM requirements and will be inspected and approved by BLM personnel prior to spud.

PERFORMANCE DATA

TMK Ultra Premium SF™ Technical Data Sheet

5.500 in

20.00 lbs/ft

P-110

110,000

125,000

641,000

728,000

psi

psi

lbs

lbs

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Tubular Parameters

Size	5.500	, in
Nominal Weight	20.00	lbs/ft
Grade	P-110	
PE Weight	19.81	lbs/ft
Wall Thickness	0.361	in
Nominal ID	4.778	in
Drift Diameter	4.653	in
Nom. Pipe Body Area	5.828	in²
	,	

Connection Parameters

Connection OD	5.646	in
Connection ID	4.734	in
Make-Up Loss	5.526	in
Critical Section Area	5.289	in²
Tension Efficiency	90.5	%
Compression Efficiency	90.5	%
Yield Load In Tension	580,000	lbs
Min. Internal Yield Pressure	12,600	psi
Collapse Pressure	11,100	. psi

Make-Up Torques

Min. Make-Up Torque	10,100	ft-lbs
Opt. Make-Up Torque	10,600	ft-lbs
Max. Make-Up Torque	11,700	ft-lbs,
Yield Torque	15,600	ft-lbs

Printed on: February-25-2014

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.

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Minimum Yield

Yield Load

Tensile Load

Minimum Tensile

Weatherford

Drilling Services

Proposal



OCCIDENTAL PERMIAN LTD.

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17752

TATES - P

IVORE FEDERAL #2H

EDDY CO., NM

WELL FILE: PLAN 1

AUGUST 8, 2012

Weatherford International, Ltd. P.O. Box 61028 Midland, TX 79711 USA +1.432.561.8892 Main +1.432.561.8895 Fax www.weatherford.com



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Weatherford International Ltd.

WFT Plan Report - X & Y's



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Date: 8/9/2012 Time: 11:26:09 Company: Occidental Permian Ltd. Page Field: Eddy Co NM (Nad 27) Co-ordinate(NE) Reference: Well: Ivore Federal #2H. Grid North Ivore Federal #2H Site: Well: Vertical (TVD) Reference: SITE 3449.3 Section (VS) Reference: Well (0.00N,0.00E,268.31Azl) Wellpath: 1 Plan #1 Pinn: Date Composed: 8/8/2012 Version: **Principal:** Yes Tied-to: From Surface Eddy Co, NM (Nad 27) Field: Map System: US State Plane Coordinate System 1927 Map Zone: New Mexico, Eastern Zone Geo Datum: NAD27 (Clarke 1866) Coordinate System: Well Centre Sys Datum: Mean Sea Level **IGRF2010** Geomagnetic Model: Ivore Federal #2H Site: Site Position: Northing: 621044.00 ft Latitude: 32. 42 24.160 N 56 Map 622892.60 ft 1.700 W From: Easting: Longitude: 103 **Position Uncertainty:** 0.00 ft North Reference: Grid **Ground Level:** 3424.30 ft 0.22 dea Grid Convergence: Well: Ivore Federal #2H Slot Name: 0.00' ft Well Position: +N/-S Northing: 621044.00 ft Latitude: 42 24.160 N 32 +E/-₩ 0.00 ft Easting : 622892.60 ft Longitude: 103 56 1.700 W **Position Uncertainty:** 0.00 ft Wellpath: -1 **Drilled From:** Surface Tie-on Depth: 0.00 ft SITE Current Datum: Height 3449.30 ft Mean Sea Level Above System Datum: **Magnetic Data:** 1/1/2013 **Declination:** 7.60 deg 48738 nT Field Strength: Mag Dip Angle: 60.53 deg Vertical Section: Depth From (TVD) +N/-S +E/-W Direction ft ft ft deg 0.00 0.00 0.00 268.31 Plan Section Information DLS Build Turn TFO Target deg/100ft deg/100ft deg/100ft +N/-S MD Incl Admin **TVD** deg kirk Mn 🎆 deg en tradis 》那四ft 最 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0,00 0.00 7727.72 0.00 7727.72 0.00 0.00 0.00 0.00 8352.72 50.00 254.30 8276.36 -69.23 -246.29 8.00 8.00 0.00 254.30 8882.93 90.00 269.78 8455.00 -127.91 -729 15 8.00 7.54 2 92 23.31 269.78 8455.00 13025.10 90.00 PBHL -143.90-4871.30 0.00 0.00 0.00 0.00 Survey MD^V Incl Azim (R DLS deg/100ft TVD N/S EAV Comment VS MapE fi deg/100ft deg 酒川 漏漏 **端ft** 煎然 7700.00 0.00 7700.00 0.00 0.00 0.00 0.00 0.00 621044.00 622892.60 0.00 0.00 621044.00 7727.72 0.00 7727.72 0.00 0.00 0.00 622892.60 KOP 254.30 254.30 7799 88 -0.99 621043.01 7800.00 5.78 -3.51 3.54 8.00 622889.09 7898 34 -19.85 7900.00 13.78 -5.58 20.01 8.00 621038.42 622872.75 8000.00 254.30 21.78 7993.49 -13.84 -49.23 49.62 8.00 621030.16 622843.37 8100.00 29.78 254.30 8083.46 -25.60 -91.07 91.78 8.00 621018.40 622801.53 8200.00 37.78 254.30 8166.51 -40.63 -144.55 145.69 8.00 621003.37 622748.05 8300.00 45.78 254.30 8241.02 -58.65 -208.65 210.28 8.00 620985.35 622683.95 8352.72 50.00 254.30 8276.36 -69.23 -246.29 248.22 620974.77 8.00 622646.31 Build/Turn 8400.00 256.16 8305.63 -78.68 -282.19 53.49 284.38 8.00 620965.32 622610.41 8451.75 57.34 258.01 8335.00 -88.18 -323.70 326.16 8.00 620955.82 622568.90 BSPG 2nd Sand 8500.00 60.95 259.60 8359.75 -96:21 -364.33 367.01 8.00 620947.79 622528.27 620933.87 8600.00 68.49 262.58 8402.43 -110.13 -453.59 456,64 8 00 622439.01 8700.00 76.07 8432.86 -548.24 265.25 551.54 -120.17 8.00 620923.83 622344.36 8800.00 83.68 267.76 8450.43 -126.14 -646.42 649.86 8.00 620917.86 622246.18 8882.93 90.00 269.78 8455.00 -127.91 -729 15 732.61 8.00 620916.09 622163.45 LP



PBHL

Weatherford International Ltd. WFT Plan Report - X & Y's



200	Company: Co Field:	cidental I Idy Co. N	Permian Lto M (Nad 27	i Jenerali		Di Alter C	ate: 28/9/201 o-ordinate(NE	2 Reference:	Lime: 11:26:09 Well: Ivore Fe	deral #2H; Grid	Page: 112 (11)
1	Well: Well	re Feder	al #2H	Ar san Sara i		Sec. 1	ction (VS) Re	erence:	Well (0.00N.0	.00E,268.31Azi	
<u>.</u>	Wellpain: 3312		1. Martin and Andrewson		建油品的彩色体影	S. Marting P. S.	irvey Calculat	ion Method:	Minimum Cur	valure	Db: Sybase 200
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	12700.00	90.00	269,78	8455.00	-142.65	-4546.20	4548.43	0.00	620901.35	618346.40	
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	12800.00	90.00	269.78	8455.00	-143.03	-4646.20	4648.39	0.00	620900.97	618246.40	
	12900,00	90.00	269.76	8455.00	-143,42 -143,80	-4/46.20	4748.30	0.00	620900,58	618146.4U	
	13025.10	90.00	269.78	8455.00	-143.90	-4871.30	4873.42	0.00	620900.10	618021.30	PBHL
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56 6.967 W 8455.00 -143.90 -4871.30 620900.10 618021.30 32 42 22.914 N 103 56 58.717 W

Company Occodenial Perman Lub Press Autor Colomb (Mark 27) Near Federal 821 Near	WFT Plan Report - X & Y's Worthoffo	rd'
Wellpäikit 1 Survey Catedration Method: Method: <th< th=""><th>Date: 8/9/2012 Time: 11:26:09 Co-ordinate(NE) Reference: Well, ivore Federal #2H Grid North Vertical (TVD) Reference: SITE 3449:3 Section (VS) Reference: Well (0.00N,0.00E,268.31Azi)</th><th>3</th></th<>	Date: 8/9/2012 Time: 11:26:09 Co-ordinate(NE) Reference: Well, ivore Federal #2H Grid North Vertical (TVD) Reference: SITE 3449:3 Section (VS) Reference: Well (0.00N,0.00E,268.31Azi)	3
Bytop Typ Dismission Main 18 2100 0000 Stc Csg 1335.00 1835.00 0000 0000 Stc Csg 1335.00 170 100 100 100 Stc Csg 7727.72 7727.72 KOP 805.00 100 100 Stc Csg 100 </td <td>Survey Calculation Method: Minimum Curvature () Db: 55</td> <td>sybase .</td>	Survey Calculation Method: Minimum Curvature () Db: 55	sybase .
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Permian Drilling Hydrogen Sulfide Drilling Operations Plan Ivore 35 Fed Com 2H

Open drill site. No homes or buildings are near the proposed location.

1. Escape

Personnel shall escape upwind of wellbore in the event of an emergency gas release. Escape can take place through the lease road on the NORTHEAST side of the location. Personnel need to move to a safe distance and block the entrance to location. If the primary route is not an option due to the wind direction, then a secondary egress route should be taken.



H2S Detectors. At least three detectors will be installed: bell nipple, rig floor and Shakers.

Briefing Areas. At least two briefing areas will be placed, 90 deg off.

Wind direction indicators. Visible from rig floor and from the mud pits area.

A gas buster is connected to both the choke manifold and flowline outlets.

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OXY USA Inc. Ivore 35 Federal Com, #2H

Casing Design Assumptions:

Burst Loads

CSG Test (Surface)

- Internal: Displacement fluid + 70% CSG Burst rating
- External: Pore Pressure from section TD to surface

CSG Test (Intermediate)

- Internal: Displacement fluid + 70% CSG Burst rating
- External: Pore Pressure from the Intermediate hole TD to Surface CSG shoe and MW of the drilling mud that was in the hole when the CSG was run to surface

CSG Test (Production)

- Internal: Fresh water displacement fluid + 80% CSG Burst rating
- External: Pore Pressure from the well TD the Intermediate CSG shoe and MW of the drilling mud that was in the hole when the CSG was run to surface

Gas Kick (Surface/Intermediate)

- Internal: Gas Kick based on Pore Pressure or Fracture Gradient @ CSG shoe with a gas 0.115psi/ft Gas gradient to surface while drilling the next hole section (e.g. Gas Kick while drilling the production hole section is a burst load used to design the intermediate CSG)
- External: Pore Pressure from section TD to previous CSG shoe and MW of the drilling mud that was in the hole when the CSG was run to surface

Stimulation (Production)

- Internal: Displacement fluid + Max Frac treating pressure (not to exceed 80% CSG Burst rating)
- External: Pore Pressure from the well TD to the Intermediate CSG shoe and 8.5 ppg MWE to surface

Collapse Loads

Lost Circulation (Surface/Intermediate)

- / Internal: Losses experienced while drilling the next hole section (e.g. losses while drilling the production hole section are used as a collapse load to design the intermediate CSG). After losses there will be a column of mud inside the CSG with an equivalent weight to the Pore Pressure of the lost circulation zone
- External: MW of the drilling mud that was in the hole when the CSG was run

Cementing (Surface/Intermediate/Production)

- Internal: Displacement Fluid
- External! Cement Slurries to TOC, MW to surface

Full Evacuation (Production)

- Internal: Atmospheric Pressure
- External: MW of the drilling mud that was in the hole when the CSG was run

Tension Loads

Running CSG (Surface/Intermediate/Production)

• Axial load of the buoyant weight of the string plus either 100 klb over-pull or string weight in air, whichever is less

Green Cement (Surface/Intermediate/Production)

• Axial load of the buoyant weight of the string plus the cement plug bump pressure (Final displacement pressure + 500 psi)

Burst, Collapse and Tensile SF are calculated using Landmark's Stress Check (Casing Design) software.



. CAMERON

11º 10M MBS Wellheed

227783LP 7217/162104

Ground Level

21150P 5.007 8.635P

(Berille (Draw)

1.13/16/10M

7-5/8 Casing)

5-1/2 Gastro

1-13/167-10M

1,1:38

32.30

8/11 251/16°,5M

Conductor 10-3/#[Casing]







A shares well pad with Smokey Bits State #24







PECOS DISTRICT CONDITIONS OF APPROVAL

OPERATOR'S NAME:	OXY USA WTP LP
LEASE NO.:	NMNM06245
WELL NAME & NO.:	Ivore 35 Federal 2H
SURFACE HOLE FOOTAGE:	1575' FNL & 0075' FEL
BOTTOM HOLE FOOTAGE	1700' FNL & 0330' FWL
LOCATION:	Section 35, T. 18 S., R 30 E., NMPM
COUNTY:	Eddy County, New Mexico

I. DRILLING

A. DRILLING OPERATIONS REQUIREMENTS

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

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

Eddy County

Call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, (575) 361-2822

- A Hydrogen Sulfide (H2S) Drilling Plan shall be activated 500 feet prior to drilling into the Yates formation. As a result, the Hydrogen Sulfide area must meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, please provide measured values and formations to the BLM.
- 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. If the drilling rig is removed without approval an Incident of Non-Compliance will be written and will be a "Major" violation.
- 3. 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 is located, this does not include the dog house or stairway area.
- 4. 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.

B. CASING

Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size. 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.).

Centralizers required on surface casing per Onshore Order 2.III.B.1.f.

Wait on cement (WOC) time prior to drilling out for a primary cement job will be a minimum 18 hours for a water basin, 24 hours in the potash area, or 500 pounds compressive strength, whichever is greater for all casing strings. DURING THIS WOC TIME, NO DRILL PIPE, ETC. SHALL BE RUN IN THE HOLE. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. See individual casing strings for details regarding lead cement slurry requirements.

No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.

Secretary's Potash

Possibility of water and brine flows in the Artesia and Salado Groups. Possibility of lost circulation in the Artesia Group.

- 1. The 10-3/4 inch surface casing shall be set at approximately 515 feet (in a competent bed below the Magenta Dolomite, which is a Member of the Rustler) and cemented to the surface. Freshwater mud to be used to setting depth.
 - 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 is to include the lead cement slurry.

- 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 shall be kept fluid filled while running into hole to meet minimum collapse requirements.

2. The minimum required fill of cement behind the 7-5/8 inch intermediate casing, which shall be set at approximately 3600 feet, is:

Cement to surface. If cement does not circulate see B.1.a, c-d above. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to potash.

Formation below the 7-5/8" shoe to be tested according to Onshore Order 2.III.B.1.i. Test to be done as a mud equivalency test using the mud weight necessary for the pore pressure of the formation below the shoe (not the mud weight required to prevent dissolving the salt formation) and the mud weight for the bottom of the hole. Report results to BLM office.

Centralizers required on horizontal leg, must be type for horizontal service and a minimum of one every other joint.

3. The minimum required fill of cement behind the 5-1/2 X 4-1/2 inch production casing is:

Cement should tie-back at least 500 feet into previous casing string. Operator shall provide method of verification.

4. 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.

C. 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. Variance approved to use flex line from BOP to choke manifold. 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. If the BLM inspector questions the straightness of the hose, a BLM engineer will be contacted and will review in the field or via picture supplied by inspector to determine if changes are required (operator shall expect delays if this occurs).
- 3. 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. Operator shall perform the intermediate casing integrity test to 70% of the casing burst. This will test the multi-bowl seals.
 - 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.
- 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.
 5M 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.
- 5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - a. 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.

- b. The tests shall be done by an independent service company utilizing a test plug **not a cup or J-packer**.
- c. 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.
- d. The results of the test shall be reported to the appropriate BLM office.
- e. 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.
- f. 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.

D. DRILL STEM TEST

If drill stem tests are performed, Onshore Order 2.III.D shall be followed.

E. 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.

CRW 071414