Form 3160-5 (August 2007)

NM OIL CONSERVATION

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT OCH TESTAIDISTRICT · AUG **3** 2015

FORM APPROVED OMB NO. 1004-0135 Expires: July 31, 2010

5. Lease Serial No.

SUNDAY	NOTICES AND REPU	HIS ON WE	LLS		INIVI	I COPEIVIVI			
abandoned wel	s form for proposals to I. Use form 3160-3 (AP	ariii or to re- D) for such p	rop osal CEIVE	D	6. If In	dian, Allottee o	or Tribe N	Vame .	
SUBMIT IN TRI	PLICATE - Other instruc	ctions on rev	erse side.		7. If U	nit or CA/Agre	ement, N	Vame and/or No.	
 Type of Well Gas Well Oth 	er			-		8. Well Name and No. CEDAR CANYON 27 FEDERAL 7H			
Name of Operator OXY USA INCORPORATED	Contact:	DAVID STEV	VART		9. API Well No. 30 - 015 - 43233				
3a. Address 5 GREENWAY PLAZA STE 1 HOUSTON, TX 77046-0521	10	3b. Phone No Ph: 432.68	(include area code) 5.5717		10. Fie	10. Field and Pool, or Exploratory PIERCE CROSSING			
4. Location of Well (Footage, Sec., T.	, R., M., or Survey Description)			11. Co	11. County or Parish, and State			
Sec 28 T24S R29E SESE 1260FSL 0200FEL 32.184430 N Lat, 103.981106 W Lon						OY COUNT	Υ, NM		
12. CHECK APPE	ROPRIATE BOX(ES) TO) INDICATE	NATURE OF I	NOTICE,	REPORT	OR OTHE	R.DAT	`A	
TYPE OF SUBMISSION	1		511						
Notice of Intent	☐ Acidize	☐ Dee	pen	□ Prod	uction (Star	t/Resume)	□ W	ater Shut-Off	
_	☐ Alter Casing	. 🗖 Frac	ture Treat	□ Recl	amation			ell Integrity	
Subsequent Report	Casing Repair		Construction	☐ Reco	•		⊠ Of	ther nge to Original A	
☐ Final Abandonment Notice	Change Plans	_ ~	and Abandon	_	porarily Ab	andon	PD	igo to Original A	
13. Describe Proposed or Completed Ope	Convert to Injection	☐ Plug			er 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 Abdetermined that the site is ready for fi	k will be performed or provide operations. If the operation re- andonment Notices shall be fil- nal inspection.)	the Bond No. or sults in a multipl ed only after all	a file with BLM/BIA e completion or reco requirements, include	. Required impletion in the control of the control	subsequent in a new intervention, have be	reports shall be val, a Form 316	filed wit 0-4 shall	thin 30 days I be filed once	
OXY USA Inc. respectfully req	•		_	pian.	USE	Existi	· ,	COA	
Proposed TD - 13822'M .8805'	V	101	1-8/4/1	J			11	-7 2	
1. Move Surface Location 45' i New - 1790 FSL 240 FEL Old - 1745 FSL 200 FEL See attached for amended pla		Acce)— 8/4/1 plad for race NMOCD	≭d			QV	1-24-15	
2. Request casing design mod 14-3/4" surface hole w/ 10-3/4 hole w/ 5-1/2 & 4-1/2" csg. De	" csg, 9-7/8" intermediate	with smaller bite hole w/ 7-5/8	3" csg and 6-3/4					ROVAL	
14. I hereby ceftify that the foregoing is	true and correct.								
	Electronic Submission # For OXY US	A INCORPORA	TEĎ, sent to the	Carlsbad	-				
	nitted to AFMSS for proces	sing by JENN			•	0434SE)			
Name(Printed/Typed) DAVID ST	EWARI		Title REGUL	ATORY	ADVISOR				
Signature (Electronic S	ubmission)		Date 07/22/2	015 <u>[</u>	/ PPB	OVED]	
THIS SPACE FOR FEDERAL OR STATE OFFICE USE									
Approved By	ptn 7 PolM		Title		JUL 2	4 2015		Date	
Conditions of approval, if any, are attached certify that the applicant holds legal or equivalich would entitle the applicant to conduct the conduction of t	itable title to those rights in the	not warrant or e subject lease	Office	BUREA	U OF LANE) MANAGEMI	Ī ĒNT		
Title 18 U.S.C. Section 1001 and Title 43 States any false, fictitious or fraudulent s	U.S.C. Section 1212, make it a		rson knowingly and	willfully to				of the United	

Additional data for EC transaction #309857 that would not fit on the form

32. Additional remarks, continued

a.Surface Casing 10-3/4" 45.5# J-55 BT&C new csq @ 0-500', 14-3/4" hole w/ 8.4# mud

Coll Rating (psi)-2090 Burst Rating (psi)-3580 SF Coll-9.61 SF Burst-1.40 SF Ten-5.71

*The surface casing will be set a minimum of 25' into the Rustler Anhydrite. If salt is encountered it will be set at least 25' above the salt.

b.Intermediate Casing 7-5/8" 26.4# L-80 BT&C new csq @ 0-2900', 9-7/8" hole w/ 10.0# mud

Coll Rating (psi)-3400 Burst Rating (psi)-6020 SF Coll-5.44 SF Burst-1.37 SF Ten-3.62

c.Production Casing 5-1/2" 20# P-110 USF new csg @ 0-8900'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 @ 8900-13822'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-2.70

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

- 3. Cement program adjustment to the new bit/casing sizes. Cement program modifications detailed below
- a. Surface Circulate cement to surface w/ 540sx PP cmt w/ 2% CaCl2, 14.8ppg 1.35 yield 1415# 24hr CS 150% Excess.
- b. Intermediate Circulate cement to surface w/ 580sx 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/ 220sx 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 560sx 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 @ 1900'.

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.

4. Mud Program Depth Mud WT Vis Sec Fluid Loss FW Gel 0-500 8.4-8.8 28-38 NC 500-2900' 9.8-10 28-32 NC NaCl Brine 2900-TD 8.8-9.6 50-75cc/30min EnerSeal (MMH) 38-50

NM OIL CONSERVATION

ARTESIA DISTRICT

AUG 3 2015

Pietrics 1
1627 N. French Dr., Hobbs, NM 82340
Phome: [573] 993-6161 Faz: (575) 393-0720
Pietrics [].
811 S. First St., Aresia, NM 82210
Phomo: [577] 744-120 Faz: (575) 748-7720
Phomo: [577] 744-120 Faz: (575) 748-7720
Phomo: [577] 744-120 Faz: (575) 348-6170
Phomo: (520) 334-6170 Faz: (525) 334-6170
Phomo: (520) 334-6170 Faz: (525) 334-6170
Phomo: (520) 476-3460 Faz: (520) 476-3462
Phomo: (520) 476-3460 Faz: (520) 476-3462

State of New Mexico

Energy, Minerals & Natural Resources Department RECEIVED Revised August 1, 2011

OIL CONSERVATION DIVISION
Submit one copy to appropriate

1220 South St. Empire De

1220 South St. Francis Dr. Santa Fe, NM 87505

MENDED REPORT

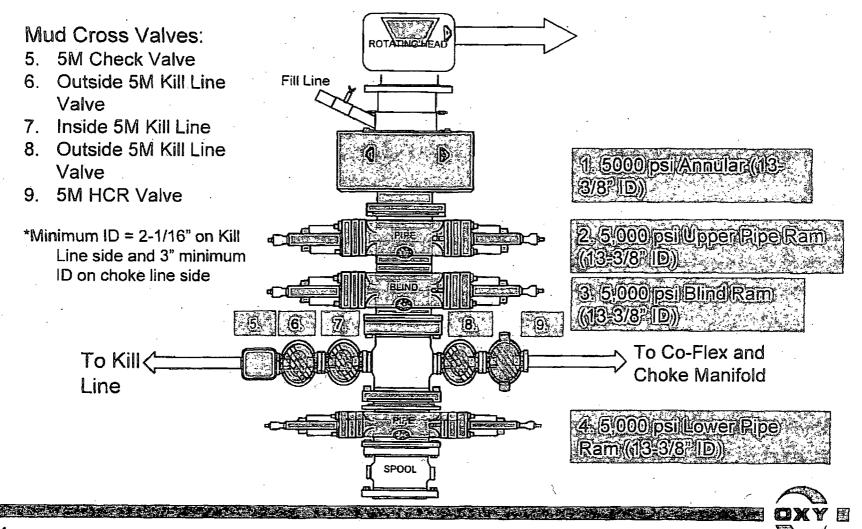
WO # 141204WL-0 (Rev. A) (KA)

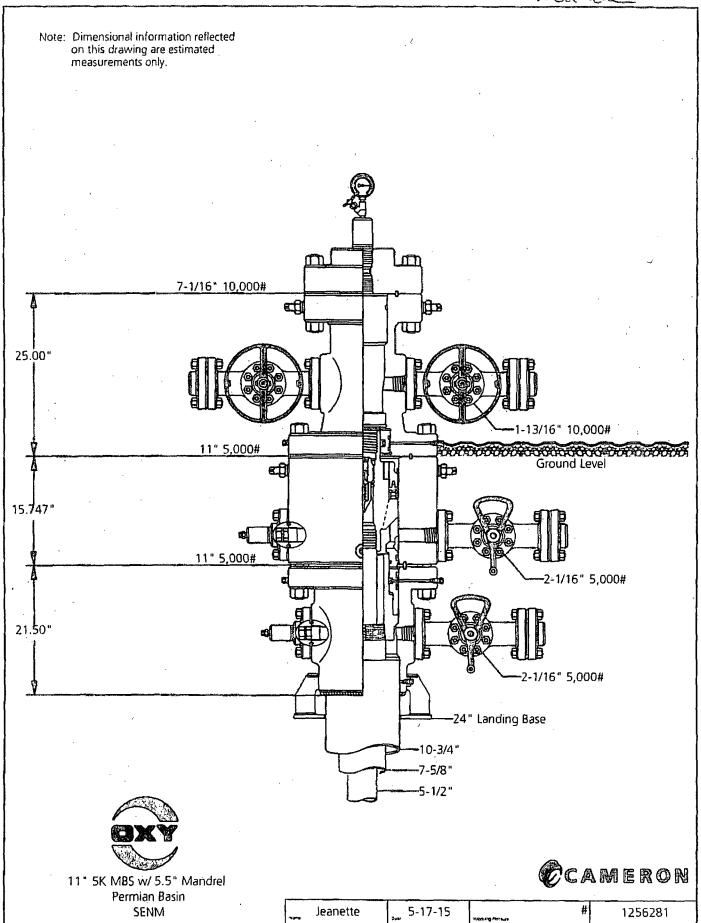
Form C-102

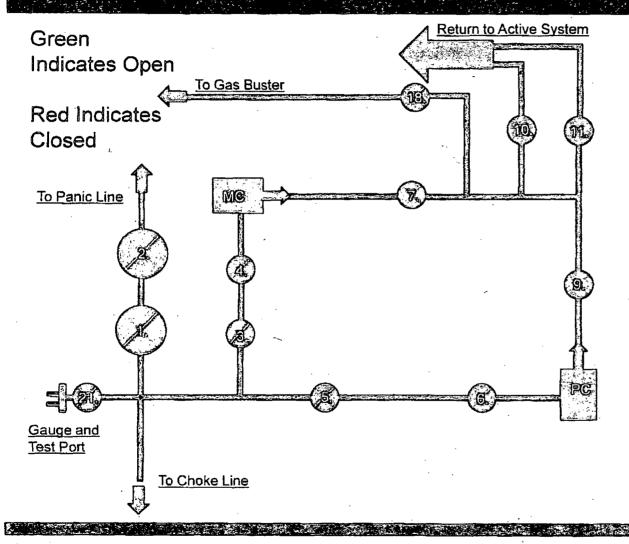
WELL LOCATION AND ACREAGE DEDICATION PLAT API Number Pool Code 30-015-43 96473 Property Code Property Name Well Number CEDAR CANYON "27" FEDERAL 7H 315035 OGRID No. Operator Name Elevation OXY USA INC. 2924.3" 1456 Surface Location UL or lot no. Section Township Range North/South line East/West line Feet from the County 24 SOUTH 28 29 EAST, N.M.P.M. 1790' SOUTH 240' **EDDY** EAST 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 24 SOUTH 29 EAST. N.M.P.M. 940' SOUTH 180' **EAST EDDY** Dedicated Acres Joint or Infill Consolidation Code Order No. 160 No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the OPERATOR CERTIFICATION 22 28 27 27 SURFACE LOCATION NEW MEXICO EAST NAD 1927 Y=431524.22 US FT X=608930.22 US FT 4 = 146*07'58" 1022.08 LAT.: N 32.1858870 DNG.: W 103.9812283 BOTTOM HOLE LOCATION
NEW MEXICO EAST
NAD 1927
Y=430675.43 US FT
X=614260.50 US FT UPPER PERF NEW MEXICO EAST NAO 1927 Y=430675.59 US FT X=609499.77 US FT SURVEYOR CERTIFICATION LAT.: N 32.1835490 NG: W 103.9793963 LAT.: N 32.1835046* ONG: W 103.9640084 330 CRID A2 = 90°00'07" 4760.76 PRODUCING AREA 770. PROJECT AREA Professional St CHOPESSIONAL 33 34 NEW MEXICO EAST NAD 1927

Y=430675.44 US FT X=614110.50 US FT LAT.: N 32.1835060 LONG: W 103.9844933

5M BOP Stack







- 1. 4" Choke Manifold Valve
- 2. 4" Choke Manifold Valve
- 3. 3" Choke Manifold Valve
- 4. 3" Choke Manifold Valve
- 5. 3" Choke Manifold Valve
- 6. 3" Choke Manifold Valve
- 7. 3" Choke Manifold Valve
- 8. PC Power Choke
- 9. 3" Choke Manifold Valve
- 10.3" Choke Manifold Valve
- 11. Choke Manifold Valve
- 12.MC Manual Choke
- 18. Choke Manifold Valve
- 21. Vertical Choke Manifold Valve

*All Valves 3" minimum



OXY USA Inc.

Cedar Canyon 27 Federal #6H/7H

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

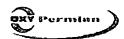
Running CSG (Surface/Intermediate/Production)

• 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.



HL Entry

1000

500

2000

2500

1500

3000

Vertical Section at 99.05bearing (1000 usft/in)

3500

4000

4500

9000

Cedar Canyon 27 Federal 7H Eddy County, NM (NAD 27 NME) Northing: 431524.22 Easting: 608930.22

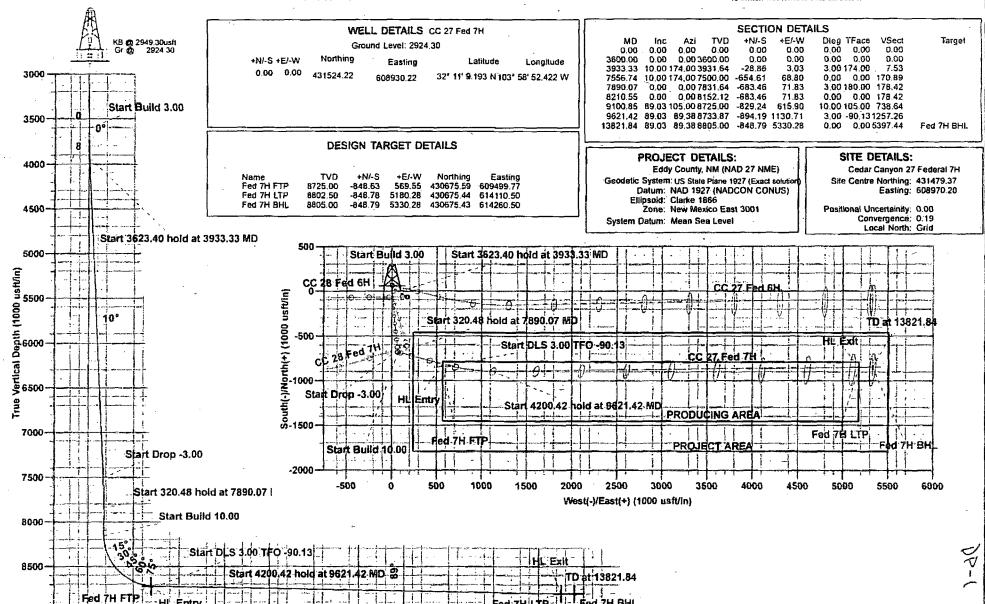


Azimuths to Grid North True North: -0.19 Magnetic North; 7.18

Magnetic Field Strength: 48372.3snT Dio Angle: 60 05: Date, 1/7/2015 Model: HDGM

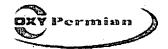
To convert Magnetic North to Grid, Add 7 18" To convert True North to Grid, Subtract 0.19*





Fed 7H BHL

6000



Database Midland District

Company: OXY

Project: Eddy County, NM (NAD 27 NME) Site: Cedar Canyon 27 Federal 7H

CC 27 Fed 7H

Well: Wellbore: OH Dosign: Plan #5 Local Co-ordinate Roforenco:

TVD Reference: MD Reference:

North Reference: Survey Calculation Method:

Well CC 27 Fed 7H

KB @ 2949.30usft KB @ 2949.30usft

Grid

Minimum Curvature

Eddy County, NM (NAD 27 NME), New Mexico, Project

Map System: Geo Datum:

Map Zone: ..

US State Plane 1927 (Exact solution) NAD 1927 (NADCON CONUS)

New Mexico East 3001

System Datum:

Mean Sea Level

Cedar Canyon 27 Federal 7H Site :

Site Position:

Northing:

431,479.37 usft

From:

Well Position

Map

Easting:

608,970.20 usft

Longitude:

Position Uncertainty:

Slot Radius:

13-3/16 *

Grid Convergence:

103° 58' 51.958 W 0.19 °

Well CC 27 Fed 7H

+N/-S

44.85 usft

0.00 usft

Easting:

Northing:

431,524.22 usft

Latitude:

32* 11' 9,193 N

Position Uncertainty

+E/-W -39.98 usft 0.00 usft

Wellhead Elevation:

608,930.22 usft

Longitude:

103° 58' 52.422 W

HDGM

0.00 usft

Ground Level:

2,924.30 usft

Wellbore OH

Magnetics)

Model, Name

Sample Date : Declination

Dip Angle

Field Strength

1/7/2015

7.37

60.05

48,372

Plan #5 Design 🐰

Audit Notes:

Version:

Phase:

0.00

8,805.00

-848.79

PLAN

Tie On Depth:

0.00

0.00

0.00

0.00

Direction

(bearing)

99.05

Vertical Section: Depth From (TVD) (usft) (usft) (usft)

Plan Section	19 8 6	is . a says Call and Hollandson	an mangermen, ibt semmen e	ELVISIO DE TOMO TOMO	a dia managana di managana	A TO COLUMN THE WAY	effifted to a medical photostration	And the state of the state of	To Figure 1 or a free control of the last	TATE OF THE PARTY
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Rich Hill Ball										
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7,556.74	10.00	174.00	7,500.00	-654.61	68.80	0.00	0,00	0.00	0,00	
7,890.07	7 0.00	0.00	7,831.64	-683.46	71.83	3.00	-3.00	0.00	180.00	
8,210.55	0.00	0.00	8,152.12	-683.46	71.83	0.00	0.00	0.00	0.00	
9,100.85	89.03	105.00	8,725.00	-829.24	615.90	10,00	10.00	0.00	105.00	
9,621.42	89.03	89.38	8,733,87	-894 .19	1,130.71	3.00	0.00	-3.00	-90,13	•

5,330,28

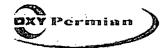
0.00

13,821.84

89.03

89.38

0.00 Fed 7H BHL



Midland District OXY

Database: Company: Project: Site: Well: Well: Well: Design: Eddy County, NM (NAD 27 NME) Cedar Canyon 27 Federal 7H

CC 27 Fed 7H OH

Local Co: ordinate! Reference: of TVD Reference: MD Reference: MD Reference: North; Reference: Survey, Calculation (Wethod:

Well CC 27 Fed 7H KB @ 2949,30usft KB @ 2949.30usft

Grld

Minimum Curvature

Design:	Francisco de la companyo de la compa	Marianian arabinan andrian arabinan ara	en altrace construction when the					· · · · · · · · · · · · · · · · · · ·	mana aa dagaa waa da daada ka aa gagaa da aa a
Planned Survey									
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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
700.00	. 0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
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1,100.00 1,200.00	0.00 0.00	0.00	1,100.00 1,200.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00
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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
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2,400.00	0.00	0.00	2,400.00	0.00	0.00	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
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2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00 0.00	00.0 00.0	0.00 0.00	00.0 00.0
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3,200.00	0.00	0.00	3,200.00	0.00	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
3,500.00	0.00 0.00	0.00	3,500.00	0.00	0.00	0.00	0.00	0.00	0.00
3,600.00 3,700.00	3.00	0.00 174.00	3,600.00 3,699.95	0.00 -2.60	0.00 0.27	0.00 0.68	0.00 3.00	0.00 3.00	0.00 0.00
3,800.00	6.00	174.00	3,799.63	-10.41	1.09	2.72	3.00	3.00	0.00
3,900.00	9.00		3,898.77	-23.38	2.46	6.10	3.00	3.00	0.00
3,933.33	10.00	174.00	3,931.64	-28.86	3.03	7.53	3.00	3.00	0.00
4,000.00	10.00	174.00	3,997.30	-40.37	4.24	10.54	0.00	0.00	0.00
4,100.00 4,200.00	10.00 10.00	174.00 174.00	4,095.78 4,194.26	-57.64 -74.91	6.06	15.05	0.00	0.00	0.00
4,300.00	10.00	174.00	4,194.20	-74.91 -92.18	7.87 9.69	19.56 24.06	0.00 0.00	0.00 0.00	0.00 0.00
4,400,00	10.00	174.00	4,391.22	-109.45	11.50	28.57	0.00		i
4,500.00	10.00	174.00	4,489.70	-126.72	13.32	33.08	0.00	0.00 0.00	0.00 0.00
4,600.00	10.00	174.00	4,588.18	-143.99	15.13	37.59	0.00	0.00	0.00
4,700.00	10.00	174.00	4,686.66	-161.26	16,95	42.10	0.00	0.00	0.00
4,800.00	10.00	174.00	4,785.14	-178.53	18.76	46.61	0.00	0.00	0.00
4,900.00	10.00	174.00	4,883.62	-195.80	20.58	51.11	0.00	0.00	0.00
5,000.00	10.00 10.00	174.00 174.00	4,982.11	-213.07 230.34	22.39	55.62	0.00	0.00	0.00
5,100.00 5,200.00	10.00	174.00	5,080.59 5,179.07	-230.34 -247.61	24.21 26.02	60.13 64.64	0.00 0.00	0.00 0.00	0.00
0,200,00			2112101	-677.01	20.02	U4.04	0.00	0.00	0.00



Midland District OXY

Eddy County, NM (NAD 27 NME) Cedar Canyon 27 Federal 7H

CC 27 Fed 7H

Database: Company: Project: Site: Well: Wellbore: Design: OH Plan #5

Local Co-ordinate Reference: (TVD) Reference: MD, Reference: (North) Reference: Survey Calculation Method:

Well CC 27 Fed 7H KB @ 2949.30usft KB @ 2949.30usft

Grid

Minimum Curvature

Design:	lan #5	, : * : * ~~~	Milwebischerwoberrorrorm voor				the second trade of the principle of the party of the par	namenage that district a sector	visco di mangamente per propo de la companie de la
Planned Survey. [Measured] [Depth] [usit)		Azimuthi (bearing)	Vertical! Depth	+N/S/ (usft)	1+ <i>EJ</i> -W ((usfi))	Vertical Section (usn)	Dogleg (Rate)	Build # Rate / /100ush) & (C	Turn Raie 100usit)
5,300.00	10.00	174.00	5,277.55	-264.88	27.84	69.15	0.00	0.00	0.00
5,400.00 5,500.00 5,600.00 5,700.00 5,800.00	10.00 10.00 10.00 10.00 10.00	174.00 174.00 174.00 174.00 174.00	5,376.03 5,474.51 5,572.99 5,671.47 5,769.95	-282.14 -299.41 -316.68 -333.95 -351.22	29.65 31.47 33.28 35.10 36.92	73.66 78.16 82.67 87.18 91.69	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 0.00
5,900.00	10.00	174.00	5,868.43	-368,49	38.73	96.20	0.00	0.00	0.00
6,000.00	10.00	174.00	5,966.91	-385,76	40.55	100.71	0.00	0.00	0.00
6,100.00	10.00	174.00	6,065.39	-403,03	42.36	105.21	0.00	0.00	0.00
6,200.00	10.00	174.00	6,163.87	-420,30	44.18	109.72	0.00	0.00	0.00
6,300.00	10.00	174.00	6,262.36	-437,57	45.99	114,23	0.00	0.00	0.00
6,400.00	10.00	174.00	6,360.84	-454.84	47.81	118.74	0.00	0.00	0.00
6,500.00	10.00	174.00	6,459.32	-472.11	49.62	123.25	0.00	0.00	0.00
6,600.00	10.00	174.00	6,557.80	-489.38	51,44	127.76	0.00	0.00	0.00
6,700.00	10.00	174.00	6,656.28	-506.65	53.25	132.26	0.00	0.00	0.00
6,800.00	10.00	174.00	6,754,76	-523.92	55.07	136.77	0.00	0.00	0.00
6,900.00	10.00	174.00	6,853.24	-541.19	56,88	141.28	0.00	0.00	0.00
7,000.00	10.00	174.00	6,951.72	-558.46	58.70	145.79	0.00	0.00	0.00
7,100.00	10.00	174.00	7,050.20	-575.73	60,51	150.30	0.00	0.00	0.00
7,200.00	10.00	174.00	7,148,68	-593.00	62,33	154,81	0.00	0.00	0.00
7,300.00	10.00	174.00	7,247.16	-610.27	64,14	159.31	0.00	0.00	0.00
7,400.00	10.00	174.00	7,345.64	-627.54	65.96	163.82	0.00	0.00	0.00
7,500.00	10.00	174.00	7,444.12	-644.81	67.77	168.33	0.00	0.00	0.00
7,556.74	10.00	174.00	7,500.00	-654.61	68.80	170.89	0.00	0.00	0.00
7,600.00	8.70	174.00	7,542.69	-661.60	69.54	172.71	3.00	-3.00	0.00
7,700.00	5.70	174.00	7,641.89	-674.06	70.85	175.97	3.00	-3.00	0.00
7,800.00	2.70	174.00	7,741.61	-681.35	71.61	177.87	3.00	-3.00	0.00
7,890.07	0.00	0.00	7,831.64	-683.46	71.83	178.42	3.00	-3.00	0.00
7,900.00	0.00	0.00	7,841.57	-683.46	71.83	178.42	0.00	0.00	0.00
8,000.00	0.00	0.00	7,941.57	-683.46	71.83	178.42	0.00	0.00	0.00
8,100.00	0.00	0.00	8,041.57	-683.46	71.83	178.42	0.00	0.00	0.00
8,200.00	0.00	0.00	8,141.57	-683.46	71.83	178.42	0.00	0.00	0.00
8,210.55	0.00	0.00	8,152.12	-683.46	71.83	178.42	0.00	0.00	0.00
8,250.00	3.95	105.00	8,191.54	-683.81	73.15	179.77	10.00	10.00	0.00
8,300.00	8.95	105.00	8,241.21	-685.27	78.57	185.35	10.00	10.00	0.00
8,350.00	13.95	105.00	8,290.20	-687.83	88.15	195.22	10.00	10.00	0.00
8,400.00	18.95	105.00	8,338.14	-691.50	101.81	209.29	10.00	10.00	0.00
8,450.00	23.95	105.00	8,384.66	-696.23	119.47	227.47	10.00	10.00	0.00
8,500.00	28.95	105.00	8,429.42	-701.99	140.97	249.61	10.00	10.00	0.00
8,550.00	33.95	105.00	8,472.06	-708.74	166.16	275.54	10.00	10.00	0.00
8,600.00	38.95	105.00	8,512.27	-716.42	194.84	305.08	10.00	10.00	0.00
8,650.00	43.95	105.00	8,549.74	-724.98	226.80	337.98	10.00	10.00	0.00
8,700.00	48.95	105.00	8,584.18	-734.36	261.79	374.01	10.00	10.00	0.00
8,750.00	53.95	105.00	8,615,33	-744.48	299.54	412.89	10.00	10.00	0.00
8,800.00	58.95	105.00	8,642.96	-755.26	339.78	454.32	10.00	10.00	0.00
8,850.00	63.95	105.00	8,666.85	-766.62	382.18	497.99	10.00	10.00	0.00
8,900.00	68.95	105.00	8,686.83	-778.48	426.44	543.56	10.00	10.00	0.00
8,950.00	73.95	105.00	8,702.73	-790.74	472.21	590.69	10.00	10.00	0.00
9,000.00	78.95	105.00	8,714.45	-803.32	519.15	639.02	10.00	10.00	0.00
9,050.00	83.95	105.00	8,721.88	-816.11	566.89	688.18	10.00	10.00	0.00
9,100.85	89.03	105.00	8,725.00	-829.24	615.90	738.64	10.00	10.00	0.00
9,200.00	89.02	102.02	8,726.68	-852.41	712,28	837,47	3.00	-0.01	-3.00
9,300.00	89.02	99.02	8,728.39	-870.67	810,58	937,41	3.00	0.00	-3.00
9,400.00	89.02	96.02	8,730.09	-883.76	909,69	1,037,35	3.00	0.00	-3.00





Database: Company:

Midland District

OXY

Project: Site: Well: Wellbore: Design: Eddy County, NM (NAD 27 NME) Gedar Canyon 27 Federal 7H

CC 27 Fed 7H

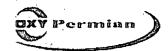
OH! Plan #5 L'ocal, Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method:

Well CC 27 Fed 7H KB @ 2949.30usft KB @ 2949.30usft

Grid

Minimum Curvature

	Dealgn:	Plan #5	a jungan or property or many		Life St.			in the second se	Grandia. Programmo anderson Proj	making project and the manufacture and an arranged pro-
	Planned Survey	The second second	agist och sin biologistis i sendin	line brios from a symmetric p. 4 sta	ary a regarded comment of the country	عهدوه وجزيفه والمعرف سراده الكاسك	encia territoria de la comoción de l	apa di su i fa su de di de	Ended here the college of the	transcription of the supplyment of the state
Compt C										
Compt C	honeurod		The state of	Vertical	The state of the s	The second	Vertical	Doglad	Build	Turn
		Inclination	Azimuth		+N/S	JEI W		Rato		
9,500,00 89,02 93,02 8,731,80 891,64 1,009,35 1,137,01 3,00 0,00 -3,00 9,600,00 89,03 89,38 87,335,80 894,30 1,109,22 1,236,12 3,00 0,01 -3,00 9,600,00 89,03 89,38 87,532,80 894,30 1,109,22 1,236,12 3,00 0,01 -3,00 9,600,00 89,03 89,38 87,532,80 893,34 1,209,27 1,334,71 0,00 0,00 0,00 0,00 9,900,00 89,03 89,38 87,738,89 892,26 1,309,25 1,432,32 0,00 0,00 0,00 0,00 10,000 0,00 89,03 89,38 87,40,28 899,10 1,409,23 1,531,84 0,00 0,00 0,00 0,00 10,000 0,00 89,03 89,38 87,40,28 899,10 1,509,21 1,530,41 0,00 0,00 0,00 0,00 10,000 0,00 10,000 0,00 89,03 89,38 87,40,28 890,10 1,509,21 1,530,41 0,00 0,00 0,00 0,00 10,200,00 89,03 89,38 87,40,28 890,10 1,509,21 1,509,21 1,530,41 0,00 0,00 0,00 10,200,00 89,03 89,38 87,40,28 890,10 1,509,21 1,509,21 1,509,41 0,00 0,00 0,00 10,200,00 89,03 89,38 87,40,28 880,10 1,509,21 1,509,21 1,509,41 1,000 0,00 0,00 10,200,00 89,03 89,38 87,44,97 888,02 1,609,19 1,728,97 0,00 0,00 0,00 0,00 10,400,00 89,03 89,38 87,44,97 888,02 1,609,19 1,728,97 0,00 0,00 0,00 0,00 10,400,00 89,03 89,38 87,44,74 884,70 2,099,11 2,123,24 0,00 0,00 0,00 0,00 10,500,00 89,03 89,38 87,504,48 883,81 1,999,13 2,024,45 0,00 0,00 0,00 0,00 10,500,00 89,03 89,38 87,504,48 883,81 1,999,13 2,024,45 0,00 0,00 0,00 0,00 10,700,00 89,03 89,38 87,504,48 883,81 1,999,13 2,109,14 1,100,00 89,03 89,38 87,504,48 883,81 1,209,27 1,209,47 1,20		manuscript - immediately Chillips					(usft)	(*/100)(sft) # 3	9/100us#1	
9,600,00 89,03 90,02 87,33,50 894,30 1,109,22 1,236,12 3.00 0.00 -3.00 9,700,00 89,03 89,38 8,738,75 893,24 1,209,27 1,334,71 0.00 0.00 0.00 0.00 9,800,00 89,03 89,38 8,738,88 891,24 8,24 8,25 1,432,24 0.00 0.00 0.00 0.00 10,00	PERSONAL PROPERTY.		A STATE OF THE STA				MATERIAL STATES			
9,221,42	9,500.00					1,009.35				
9,700,00	9,600.00	89.03	90.02	8,733.50	-894:30	1,109.29	1,236.12	3.00	0.00	-3.00
9,700,00	0.621.42	89.03	80.38	8 733 87	-894 19	1 130 71	1 257 26	3.00	0.01	-3.00
9.800.00 9.903 8.938 8.736.89									0.00	
9,900,00 89,03 89,38 8,738,58 891,18 1,409,23 1,531,84 0,00 0,00 0,00 10,000 0,00 10,000 89,03 89,38 8,743,28 890,10 1,509,21 1,630,41 0,00 0,00 0,00 10,000 10,000 89,03 89,38 8,743,58 887,94 1,709,17 1,827,54 0,00 0,00 0,00 10,000 0,00 10,000 89,03 89,38 8,743,58 887,49 1,709,17 1,827,54 0,00 0,00 0,00 10,000 0,00 10,000 0,00 89,03 89,38 8,744,58 885,78 1,999,13 1,926,11 0,00 0,00 0,00 0,00 10,000 0,00 0,00 0,00 10,000 0,00 0,00 0,00 10,000 0,0								0,00		
10,000.00 89.03 89.38 8,740.28 889.01 1,509.21 1,509.21 1,500.41 0.00 0.00 0.00 10,100.00 89.03 89.38 8,743.58 887.94 1,709.17 1,527.54 0.00 0.00 0.00 10,300.00 89.03 89.38 8,745.36 886.86 1,509.19 1,528.97 0.00 0.00 0.00 0.00 10,300.00 89.03 89.38 8,745.05 885.78 1,909.13 2,024.67 0.00 0.00 0.00 0.00 10,500.00 89.03 89.38 8,746.74 884.70 2,009.11 2,123.24 0.00 0.00 0.00 0.00 10,500.00 89.03 89.38 8,746.74 884.70 2,009.11 2,123.24 0.00 0.00 0.00 0.00 10,700.00 89.03 89.38 8,752.13 862.53 2,209.07 2,320.37 0.00 0.00 0.00 0.00 10,700.00 89.03 89.38 8,752.13 862.53 2,209.07 2,320.37 0.00 0.00 0.00 0.00 10,500.00 89.03 89.38 8,752.13 862.53 2,209.07 2,320.37 0.00 0.00 0.00 0.00 10,500.00 89.03 89.38 8,755.52 860.37 2,409.03 2,517.50 0.00 0.00 0.00 11,000.00 89.03 89.38 8,755.52 860.37 2,409.03 2,517.50 0.00 0.00 0.00 11,000.00 89.03 89.38 8,755.52 860.37 2,409.03 2,517.50 0.00 0.00 0.00 11,000.00 89.03 89.38 8,756.50 877.13 2,509.01 2,518.30 0.00 0.00 0.00 11,000.00 89.03 89.38 8,756.50 877.13 2,509.01 2,518.30 0.00 0.00 0.00 0.00 11,200.00 89.03 89.38 8,760.50 877.13 2,609.99 2,714.63 0.00 0.00 0.00 11,400.00 89.03 89.38 8,760.50 877.13 2,708.97 2,813.20 0.00 0.00 0.00 11,400.00 89.03 89.38 8,760.50 877.13 2,708.97 2,813.20 0.00 0.00 0.00 0.00 11,400.00 89.03 89.38 8,760.50 877.13 2,708.97 2,813.20 0.00 0.00 0.00 0.00 11,500.00 89.03 89.38 8,763.99 874.97 2,909.93 3,010.33 0.00 0.00 0.00 0.00 11,500.00 89.03 89.38 8,763.99 874.97 2,909.93 3,010.33 0.00 0.00 0.00 0.00 11,500.00 89.03 89.38 8,763.99 874.97 2,809.93 3,010.33 0.00 0.00 0.00 0.00 11,500.00 89.03 89.38 8,763.99 874.97 2,809.93 3,010.33 0.00 0.00 0.00 0.00 11,500.00 89.03 89.38 8,763.99 874.97 3,809.89 3,806.03 0.00 0.00 0.00 0.00 0.00 0.00 0.00		89.03								
10,200,00 89,03 89,38 8,745,56 868,66 1,809,15 1,925,51 10,00 0,00 0,00 10,400,00 89,03 89,38 8,746,74 884,70 2,009,11 2,123,24 0,00 0,00 0,00 10,500,00 89,03 89,38 8,746,74 884,70 2,009,11 2,123,24 0,00 0,00 0,00 10,500,00 89,03 89,38 8,750,44 884,70 2,009,11 2,123,24 0,00 0,00 0,00 10,700,00 89,03 89,38 8,750,44 883,61 2,109,09 2,221,80 0,00 0,00 0,00 0,00 10,700,00 89,03 89,38 8,750,44 884,65 2,109,09 2,221,80 0,00 0,00 0,00 0,00 10,700,00 89,03 89,38 8,753,22 891,46 2,309,95 2,418,93 0,00 0,00 0,00 0,00 10,900,00 89,03 89,38 8,755,52 886,37 2,109,109 2,221,80 0,00 0,00 0,00 0,00 11,000,00 89,03 89,38 8,759,59 1 878,21 2,509,01 2,515,00 0,00 0,00 0,00 11,000,00 89,03 89,38 8,759,59 1 878,21 2,509,01 2,516,07 0,00 0,00 0,00 11,200,00 89,03 89,38 8,759,59 1 878,21 2,509,01 2,516,07 0,00 0,00 0,00 11,300,00 89,03 89,38 8,769,59 1 878,21 1,600,00 0,00 0,00 11,400,00 89,03 89,38 8,765,59 8,767,37 8,767,59 2,509,01 3,516,00 0,00 0,00 0,00 11,400,00 89,03 89,38 8,765,58 8,767,37 8,72 8,72 8,72 8,72 8,72 8,72 8,72 8,7	10,000.00		89.38	8,740.28	-890.10	1,509.21	1,630.41	0.00	0.00	0.00
10,200,00 89,03 89,38 8,745,56 868,66 1,809,15 1,925,51 10,00 0,00 0,00 10,400,00 89,03 89,38 8,746,74 884,70 2,009,11 2,123,24 0,00 0,00 0,00 10,500,00 89,03 89,38 8,746,74 884,70 2,009,11 2,123,24 0,00 0,00 0,00 10,500,00 89,03 89,38 8,750,44 884,70 2,009,11 2,123,24 0,00 0,00 0,00 10,700,00 89,03 89,38 8,750,44 883,61 2,109,09 2,221,80 0,00 0,00 0,00 0,00 10,700,00 89,03 89,38 8,750,44 884,65 2,109,09 2,221,80 0,00 0,00 0,00 0,00 10,700,00 89,03 89,38 8,753,22 891,46 2,309,95 2,418,93 0,00 0,00 0,00 0,00 10,900,00 89,03 89,38 8,755,52 886,37 2,109,109 2,221,80 0,00 0,00 0,00 0,00 11,000,00 89,03 89,38 8,759,59 1 878,21 2,509,01 2,515,00 0,00 0,00 0,00 11,000,00 89,03 89,38 8,759,59 1 878,21 2,509,01 2,516,07 0,00 0,00 0,00 11,200,00 89,03 89,38 8,759,59 1 878,21 2,509,01 2,516,07 0,00 0,00 0,00 11,300,00 89,03 89,38 8,769,59 1 878,21 1,600,00 0,00 0,00 11,400,00 89,03 89,38 8,765,59 8,767,37 8,767,59 2,509,01 3,516,00 0,00 0,00 0,00 11,400,00 89,03 89,38 8,765,58 8,767,37 8,72 8,72 8,72 8,72 8,72 8,72 8,72 8,7	10 100 00	E0 03	80 38	8 7/11 07	-889.02	1 600 10	1 728 07	0.00	0.00	- 0.00
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Scientific Drilling

DP-6

Planning Report

Database: Midland District Company: OXY TVDIReference: Well CC 27 Fed 7H KB @ 2949.30usft K

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Design Targets Target Name hit/miss target Dip/	Angle: Dir	Dir.\ aring	TVD (USft)	+N/-S. (usft)	+E/.W/ (usft)	Northing (ustt)	Easting ((ush))	Latitude	(Longitude)
Fed 7H FTP - plan misses target cen - Point	0. 0 0 iter by 30.7		8,725.00 t 9061.16usfi		569.55 .95 TVD, -81	430,675.59 8.99 N, 577.62 E)	609,499.77	32° 11' 0.776 N	103° 58' 45.827 W
Fed 7H LTP • plan misses target cen • Point	0.00 iter by 1.63		8,802.50 13671.83usfi		5,180.28 .46 TVD, -85	430,675.44 0.41 N, 5180.30 I	614,110.50 E)	32* 11' 0.622 N	103* 57* 52.176 W
Fed 7H BHL - plan hits target center - Point	0.00	0.00	8,805.00	-848.79	5,330.28	430,675.43	614,260.50	32° 11' 0,616 N	103° 57' 50.430 W

Plan Annotations	Vertical	Local Coordin	iates .	
(Depth)	Dopih (usft)	+N/S) (usft)	+EJ-W/ (üsft)	Comment
3,600.00	3,600.00	0.00	0.00	Start Build 3.00
3,933.33	3,931.64	-28.86		Start 3623.40 hold at 3933.33 MD
7,556. 7 4	7,500.00	-654.61	68.80	Start Drop -3.00
7,890.07	7,831.64	-683,46	71.83	Start 320.48 hold at 7890.07 MD
8,210,55	8,152.12	-683.46	71.83	Start Build 10.00
9,052.07	8,722.10	-816.65	568.88	HL Entry
9,100.85	8,725.00	-829.24	615,90	Start DLS 3,00 TFO -90.13
9,521.42	8,733.87	-894.19	1,130,71	Start 4200.42 hold at 9621.42 MD
13,671.11	8,802.45	-850.42	5,179,58	HL Exit
13,821.84	8,805.00	-848.79	5,330.28	TD at 13821.84

NIM OIL CONSERVATION

ARTESIA DISTRICT

AUG 3 2015

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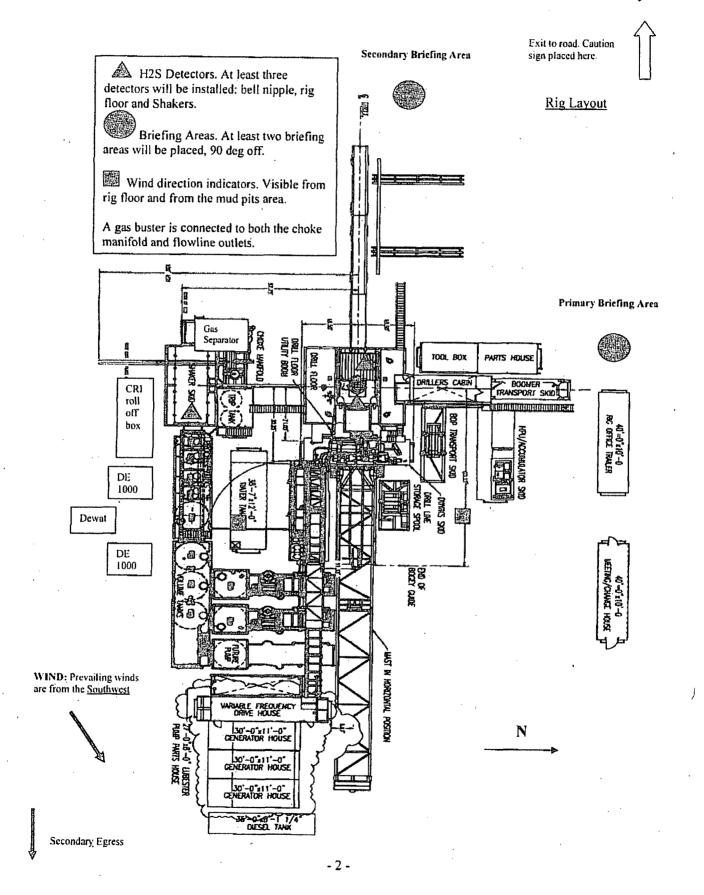


Permian Drilling Hydrogen Sulfide Drilling Operations Plan Cedar Canyon 27 Federal #7H

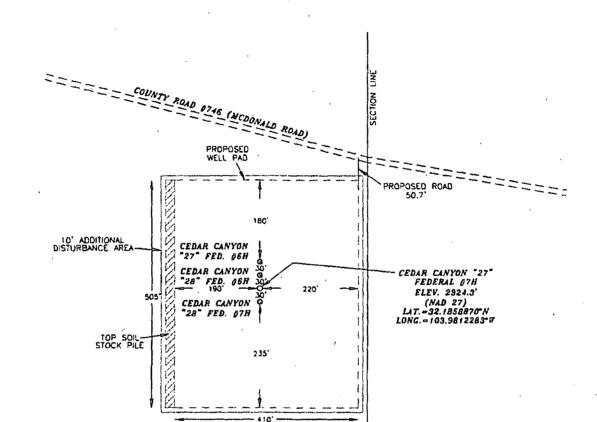
Open drill site. No homes or buildings are near the proposed location.

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 Northwest 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.



OXY USA INC. CEDAR CANYON "27" FEDERAL #7H SITE PLAN





LEGEND

DENOTES STOCK PILE AREA

- - - DENOTES PROPOSED WELL PAD

--- DENOTES PROPOSED ROAD

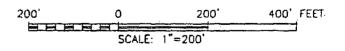
SURVEYORS CERTIFICATE

I, TERRY J. ASEL, NEW MEXICO PROFESSIONAL SURVEYOR NO. 15079, DO HEREBY CERTIFY THAT I CONDUCTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND MEETS THE "MINIMIUM STANDARDS FOR SURVEYING IN NEW MEXICO" AS ADOPTED BY THE NEW MEXICO STATE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS AND SURVEYORS.

Jessy () (Isal 7/17/2015 Terry J. pse) N.M. R.P.L.S. No. 15078

Asel Surveying

P.O. BOX 393 - 310 W. TAYLOR HOBBS, NEW MEXICO - 575-393-9146

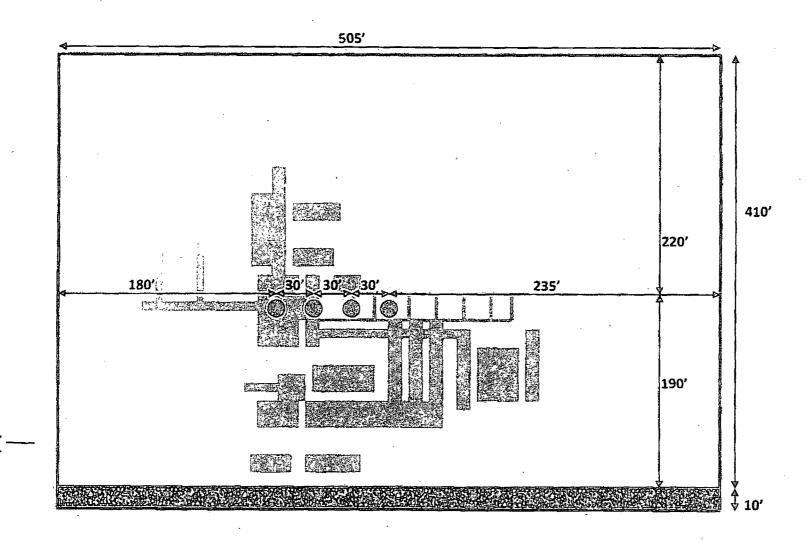


OXY USA INC.

CEDAR CANYON "27" FEDERAL #7H LOCATED AT 1790' FSL & 240' FEL IN SECTION 28, TOWNSHIP 24 SOUTH, RANGE 29 EAST, N.M.P.M., EDDY COUNTY, NEW MEXICO

Survey Date: 07/17/15	Sheet 1 o	f 1 Sheets
W.O. Number: 141204WL-b (Rev. A)	Drown By: KA	Rev: A
Date: 07/13/15	141204WL-b	Scale:1"=200'

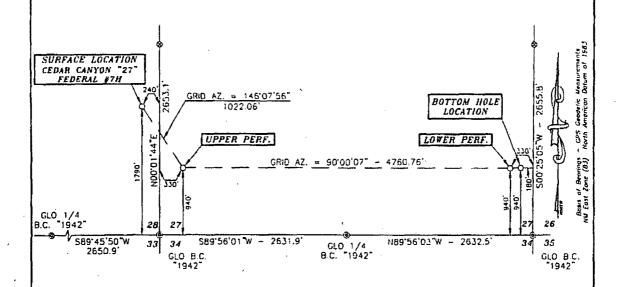
Pad Site Overall Rig Layout 4 Well Pad Site



ad largout

Stalcing Detail

SECTIONS 28 & 27, TOWNSHIP 24 SOUTH, RANGE 29 EAST, N.M.P.M., EDDY COUNTY NEW MEXICO



DRIVING DIRECTIONS:
FROM THE INTERSECTION OF U.S. HWY.
#285 AND BLACK RIVER VILLAGE ROAD IN
MALAGA. GO EAST ON COUNTY ROAD #720
FOR 1.3 MILES, TURN RIGHT ON COUNTY
ROAD #746 (MCDONALD ROAD) AND GO
SOUTH FOR D.B MILES, CONTINUE
SOUTHEAST/EAST FOR 4.7 MILES, TURN
RIGHT ON PROPOSED ROAD AND GO SOUTH
FOR 5D.7 FEET TO LOCATION.



SURVEYORS CERTIFICATE

I, TERRY J. ASEL, NEW MEDICO PROFESSIONAL SURVEYOR NO. 16079, DO HEREBY CERTIFY THAT I CONDUCTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY NOOMLEDGE AND BELIEF, AND MEETS THE "MINIMUM STANDARDS FOR SURVEYING IN NEW MEDICO" AS ADOPTED BY THE NEW MEDICO STATE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS AND SURVEYORS.

Jesus Olan 7/11/2015 Torry J. ASHY MAL RD 15. NO. 15079

Asel Surveying

9.0. BOX 393 - 310 W TAYLOR HOBBS, NEW MEXICO - 575-393-9146

LEGEND - DENOTES FOUND MONUMENT AS NOTED - DENOTES CALCULATED CORNER

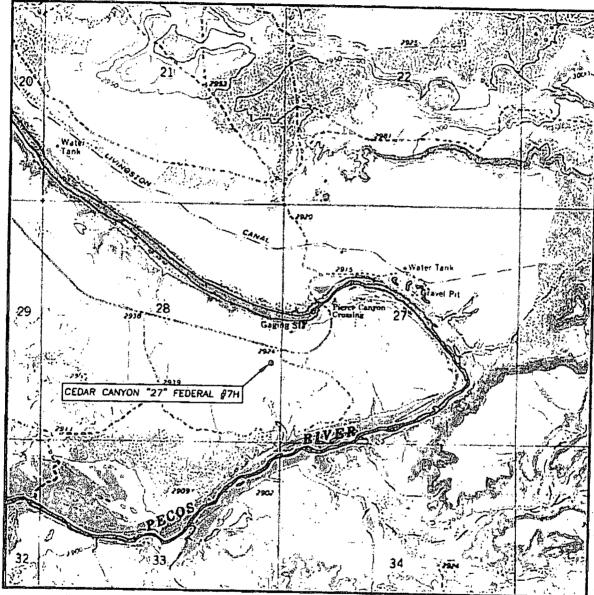
1000*	O	1000	2000	FEE
HHH	SCALE:	1"=1000"		

OXY USA INC.

CEDAR CANYON "27" FEDERAL #7H LOCATED AT 1790' FSL & 240' FEL IN SECTION 28, TOWNSHIP 24 SOUTH, RANGE 29 EAST, N.M.P.M., EDDY COUNTY, NEW MEXICO

Survey Date: 07/17/15	Sheet 1 o	f 1 Sheets
W.O. Number: 141204WL-b (Rev. A)	Drawn By: KA	Rev: A
Date: 07/13/15	141204WL~b	Scale:1"=1000'

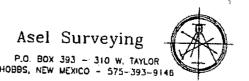
LOCATION VERIFICATION MAP



SCALE: 1" = 2000

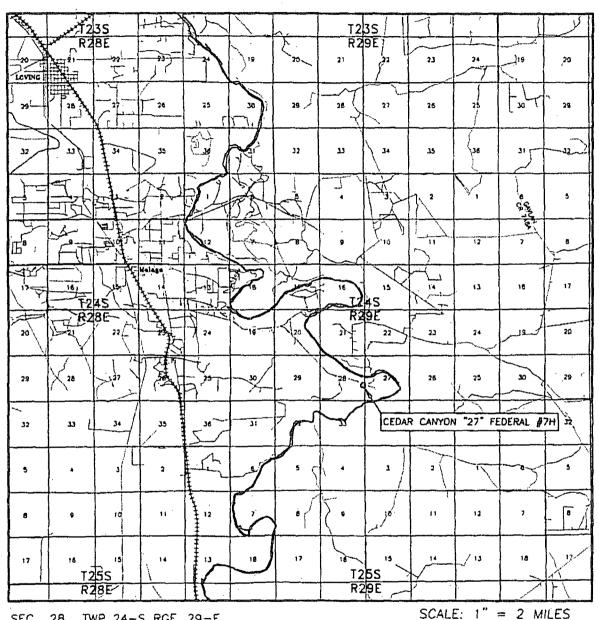
CONTOUR INTERVAL: 10'

JEC28 Wr. 24-3 RGE29-E	
SURVEYN.M.P.M.	
COUNTY EDDY	
DESCRIPTION 1790' FSL & 240' FEL	
ELEVATION 2924.3'	
OPERATOR OXY USA INC.	
LEASE CEDAR CANYON "27" FEDERAL #7	1
U.S.G.S. TOPOGRAPHIC MAP	





VICINITY MAP



SEC. 28 TWP. 24-S RGE. 29-E

SURVEY N.M.P.M.

COUNTY EDDY

DESCRIPTION 1790' FSL & 240' FEL

ELEVATION 2924.3'

OPERATOR OXY USA INC.

Asel Surveying

P.O. BOX 393 - 310 W. TAYLOR HOBBS, NEW MEXICO - 575-393-9146



LEASE CEDAR CANYON "27" FEDERAL #7H

DIRECTIONS FROM THE INTERSECTION OF U.S. HWY. #285 AND BLACK RIVER VILLAGE ROAD IN MALAGA, GO EAST ON COUNTY ROAD #720 FOR 1.3 MILES, TURN RIGHT ON COUNTY ROAD #746 (MCDONALD ROAD) AND GO SOUTH FOR 0.8 MILES, CONTINUE SOUTHEAST/EAST FOR 4.7 MILES, TURN RIGHT ON PROPOSED ROAD AND GO SOUTH FOR 50.7 FEET TO LOCATION.





Sanchez, Jennifer <j1sanchez@blm.gov>

Sundry for CC 27/28 - Connection specs

1 message

Diego_Tellez@oxy.com < Diego_Tellez@oxy.com>

Fri, Jul 24, 2015 at 10:03 AM

To: j1sanchez@blm.gov

Cc: Chan_Tysor@oxy.com, Jim_Wilson@oxy.com, David_Stewart@oxy.com, Ricardo_Viloria@oxy.com,

Juan_Mejia2@oxy.com

Hi Jennifer,

As per our phone conversation please find attached the specs for the $5 \frac{1}{2}$ " connection we are planning on running for our production string.

Hole size	Casing	Connection	Connection OD	Clearance	Meets BLM requirement of 0.422" clearance?
- 6.750"	5 ½" 20# P110	USF	5.646"	0.552"	Yes
6.750"	4 ½" 13.5# P110	DQX	5.000"	0.875"	Yes

Also, we are 7-9 days from spudding well Cypress 34 Federal 10H. We submitted the sundry (very similar to the ones for CC 27/28) back in June (6/25/15 – EC Transaction 306905 – Serial No. 830-830-4621). Could you also help us approving this one, provided it meets all BLM requirements to your satisfaction? API number for this well is 30-015-43076.

Many thanks for helping us with these sundries.

Regards,

Diego Tellez

Drilling Engineer - Team Lead

Permian Resources Delaware / New Mexico

Occidental Oil & Gas Corp.

O: 713-350-4602 / M: 713-303-4932

PERFORMANCE DATA

TMK Ultra Premium SF™ Technical Data Sheet

5.500 in

20.00 lbs/ft

P-110

psi

psi

lbs

lbs

psi

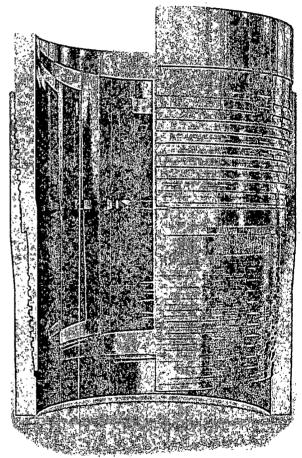
psi

Tubular Parameters					
Size	5.500	in '	Minimum Yield	110,000	
Nominal Weight	20.00	lbs/ft	Minimum Tensile	125,000	
Grade	P-110		Yield Load	641,000	
PE Weight	19.81	lbs/ft	Tensile Load	728,000	
Wall Thickness	0.361	in	Min. Internal Yield Pressure	12,600	
Nominal ID	4.778	in	Collapse Pressure	11,100	
Drift Diameter .	4.653 ·	in	63 (2007)		
Nom Pine Body Area	5 828	in ²			

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
	1	1

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:

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NM OIL CONSERVATION

ARTESIA DISTRICT

AUG 3 2015

PECOS DISTRICT CONDITIONS OF APPROVAL

RECEIVED

OPERATOR'S NAME: OXY USA Inc.

LEASE NO.: | NMNM-94651

WELL NAME & NO.: | Cedar Canyon 27 Federal 7H

SURFACE HOLE FOOTAGE: 1790' FSL & 0240' FEL

BOTTOM HOLE FOOTAGE | 0940' FSL & 0180' FEL Sec. 27, T. 24 S., R 29 E.

LOCATION: | Section 28, T. 24 S., R 29 E., NMPM

COUNTY: Eddy County, New Mexico

The original COAs still stand with the following drilling modifications:

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

- 1. Although Hydrogen Sulfide has not been reported in the area, it is always a potential hazard. Operator has stated that they will have monitoring equipment in place prior to drilling out of the surface shoe. If Hydrogen Sulfide is encountered, report measured amounts and formations to the BLM.
- 2. Setting surface casing with Transcend Drilling Spudder Rig
 - a. Notify the BLM when removing the Transcend Drilling Spudder Rig.
 - b. Notify the BLM when moving in the H&P Flex Rig. Rig to be moved in within 90 days of notification that Transcend Drilling Spudder Rig has left the location. Failure to notify or have rig on location within 90 days will result in an Incident of Non-Compliance.
 - c. Once the H&P Flex Rig is on location, it will drill the Cedar Canyon 28 Federal 6H and 7H and the Cedar Canyon 27 Federal 6H and 7H in conjunction using batch drilling.

- d. BOP/BOPE test to be conducted per Onshore Oil and Gas Order No. 2 as soon as H&P Flex Rig is rigged up on well. CIT for the surface casing shall be performed and results recorded on subsequent sundry.
- 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 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.

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

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.

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

Medium Cave/Karst

Possibility of water flows in the Castile and Salado.

Possibility of lost circulation in the Rustler, Salado, and Delaware.

- 1. The 10-3/4 inch surface casing shall be set at approximately 500 feet (a minimum of 25 feet into the Rustler Anhydrite and above the salt) and cemented to the surface. If salt is encountered, set casing at least 25 feet above the salt.
 - 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.

Formation below the 10-3/4" 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 and the mud weight for the bottom of the hole. Report results to BLM office.

- 2. The minimum required fill of cement behind the 7-5/8 inch intermediate casing, which shall be set at approximately 2900 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 cave/karst.

If 75% or greater lost circulation occurs while drilling the intermediate casing hole, the cement on the production casing must come to surface.

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 as proposed by operator. Operator shall provide method of verification. Excess calculates to 24% Additional cement may be required.
- 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).

Option 1 - BOP testing if wells are drilled conventionally- BOP is not removed between casing strings.

- 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.

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.

Option 2 - BOP testing for Batch Drilling-BOP is removed between casing strings

- 4. 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. BOP/BOPE shall be tested after nipple up according to Onshore Order #2.
- 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. 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.

JAM 072415