Form 3160-3 2 m i E UNITED STATES	-rd;	(1010)	88 C(e)	ATS-PORM APPR OMB No. 100 Expires January	3.84 OVED 04-0136 07-31, 2004
DEPARTMENT OF THE IN	TERIOR	71-		5. Lease Serial No.	
BUREAU OF LAND MANAC		W. Januaritan	Artesia	NMNM-0144698	
APPLICATION FOR PERMIT TO DE	RILL OR F	REENTER AMILIA	2 2 2009	6. If Indian, Allottee or	Tribe Name
la Type of Work: DRILL REENTER	t			7. If Unit or CA Agreeme	ent, Name and No.
1b. Type of Well.		Single Zone 🔲 Multip	ole Zone	8. Lease Name and Well N Colt 5 Federal #2 H	lo.
2. Name of Operator				9. API Well No.	
Mewbourne Oil Company - 14744	01 71 31	(1.1.1		30-015-3	11.10
3a. Address		o. (include area code)		10. Field and Pool, or Expl	-
	575-393-59			Winchester Bone Sprir 11. Sec., T., R., M., or Blk	
4. Location of Well (Report location clearly and in accordance with a				11. 500., 1., 10., WI., OI BIK	. and Survey of Thea
At surface 150' FNL & 1980' FEL Unit B, Sec 5, T20S,					
At proposed prod. zone 330' FSL & 1980' FEL Unit O, Sec	5, T20S, R	29E LOCATIO	N	Sec 5-T20S-R29E	
14. Distance in miles and direction from nearest town or post office*				12. County or Parish	13. State
15 miles NE of Carlsbad 15. Distance from proposed*	16 No. of	Acres in lease		Eddy g Unit dedicated to this well	JIMINI
location to nearest property or lease line, ft.		Acres in lease		g Onit dedicated to this wen	
(Also to nearest drig. unit line, if any) 150' 18. Distance from proposed location*	650	-d Donah	163.07'	DIA D	
to nearest well, drilling, completed,	19. Propos	ea Depin 7428	20. BLM/B	BIA Bond No. on file	
applied for, on this lease, ft. 1150'	MI		NM1693,	Nationwide	
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3310' GL	 	ximate date work will st		23. Estimated duration	
		chments		1.0	
The following, completed in accordance with the requirements of Onshor	e Oil and Ga	Order No.1, shall be att	ached to this	form:	
 Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on National Forest System SUPO shall be filed with the appropriate Forest Service Office). 	Lands, the	Item 20 above). 5. Operator certifica	ition. pecific info	s unless covered by an exis ; rmation and/or plans as ma	- ·
25. Signature	Nam	e (Printed/Typed)		Dat	e
Title Lathan	Jack	e Lathan	,	. 05/	14/09
Hobbs Regulatory					
Approved by (Signature)	Nam	e (Printed/Typed) /S/ [on Pete	Prson	116609
Title FIELD MANAGER	Offic	e	CAF	RLSBAD FIELD OFFICE	
Application approval does not warrant or certify that the applicant holds l	egal or equita	ble title to those rights in	the subject	lease which would entitle the	applicant to conduct
operations thereon. Conditions of approval, if any, are attached.			APP	ROVAL FOR TWO	YEARS
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it States any false, fictitious or fraudulent statements or representations as to			d willfully t	o make to any department o	r agency of the United
*(Instructions on manage)					

*(Instructions on reverse)

Capitan Controlled Water Basin

Approval Subject to General Requirements & Special Stipulations Attached

SEE ATTACHED FOR CONDITIONS OF APPROVAL

United States Department of the Interior Bureau of Land Management Roswell Field Office 2909 West Second Street Roswell, New Mexico 88201-1287

Statement Accepting Responsibility for Operations

Operator Name:

Mewbourne Oil Company

Street or Box:

P.O. Box 5270

City, State:

Hobbs, New Mexico

Zip Code:

88241

Mewbourne Oil Company of Hobbs, NM is a field office of Mewbourne Oil Company, 3901 S Broadway, Tyler TX 75701. **Mail connected to this APD should be directed to the Hobbs address.** The undersigned accepts all applicable terms, conditions, stipulations, and restrictions concerning operations conducted of the leased land or portion thereof, as described below.

Lease Number:

Lease Number # NMNM0144698

Legal Description of Land:

Section 5, T20S, R29E Eddy County, New Mexico.

Location @ 150' FNL & 1980' FWL.

Formation (if applicable):

Bone Spring

Bond Coverage:

\$150,000

BLM Bond File:

NM1693, Nationwide

Authorized Signature:

ne/NM (Micky) Young Title: District Manager

Date: May 14, 2009

DISTRICT I 1625 N. French Dr., Hobbs, NM 88240 DISTRICT II 1301 V. Grand Avenus, Artesia, NM 88210

State of New Mexico Energy, Minerals and Natural Resources Department

Form C-102 Revised October 12, 2005

Submit to Appropriate District Office

State Lease - 4 Copies Fee Lease - 3 Copies

BISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410

1220 South St. Francis Dr. Santa Fe, New Mexico 87505

DISTRICT IV 1220 S. St. Prancis Dr., Santa Pe, NM 87505

WELL LOCATION AND ACREAGE DEDICATION PLAT

OIL CONSERVATION DIVISION

☐ AMENDED REPORT

API Number		Pool Code	Pool	Name	
30-015-37	170 65	3010	Winchester Bon	e Springs	£
Property Code			erty Name	Well	Number
37756	COLT "5" FEDERAL 2			Н	
OGRID No.		Орег	ator Name	Ele	vation
14744/		MEWBOURNE OIL COMPANY		33	10'

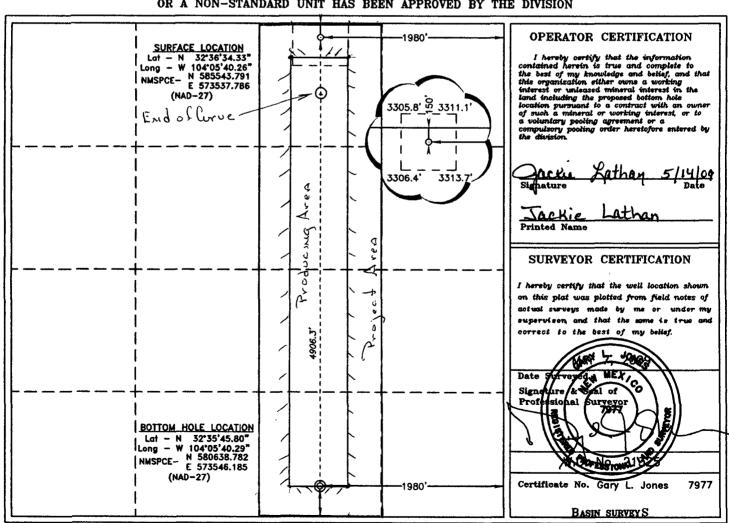
Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
В	5	20 S	29 E		150	NORTH	1980	EAST	EDDY

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	Bast/West line	County
0	5	20 S	29 E	<u> </u>	330	SOUTH	1980	EAST	EDDY
Dedicated Acre	Joint o	r Infill Co	nsolidation	Code Or	der No.				·
163									

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



<u>Drilling Program</u> Mewbourne Oil Company

Colt 5 Fed #2H

150' FNL & 1980' FEL, Sec 5-T20S-R29E (Surface Location) Unit Letter B 330' FSL & 1980' FEL, Sec 5-20S-R28E (Bottom hole Location) Unit Letter O Eddy County, New Mexico

1. The estimated top of geological markers are as follows:

Salt	800'
*Yates	1250'
Capitan Reef	1475'
*Delaware	3300'
*Bone Springs	5400'

2. Estimated depths of anticipated fresh water, oil, or gas:

Water Fresh water will be protected by setting surface casing at 300' and

cemented to surface.

Hydrocarbons Oil and Gas are anticipated in the above (*) formations. These zones will

be protected by casing and cementing as necessary.

3. Pressure control equipment:

A 2M diverter system will be installed after running 20" casing.

A 2000# working pressure annular BOP will be installed on the 13 %" surface casing. A 3000# WP Double Ram BOP and 3000# WP Annular will be installed after running 9 %" casing. Pressure tests will be conducted prior to drilling out under all casing strings. BOP controls will be installed prior to drilling under deep surface casing and will remain in use until completion of drilling operations. BOP's will be inspected and operated as recommended in Onshore Order #2. A Kelly cock and a sub equipped with a full opening valve sized to fit the drill pipe and collars will be available on the rig floor in the open position when the Kelly is not in used. MOC would like to waive the low pressure-test on the 13 %" BOPE stack and test with rig pump to 70% of burst rate. Will test the 9 %" BOPE to 3000# and Annular to 1500# with a third party testing company before drilling below 9 %" shoe, but will test again, if needed, in 30 days from the 1st test as per BLM Onshore Oil and Gas Order #2.

COT

*4. Proposed casing and cementing program:

		A. Casin	g Program:				
		Hole Size	Casing	Wt/Ft.	<u>Grade</u>	<u>Depth</u>	<u>Jt Type</u>
See		26"	20" (new) Conductor	94#	J55	0-300' 1450'	BT&C
CoA	***************************************	17 ½"	13 ¾" (new)	48#	H40	0-1300	ST&C
		12 1⁄4"	9 %" (new)	40#	J55	0'-3200'LT&C	
		8 3/4"	5 ½" (new)	17#	HCP110	0-1600'	LT&C
			5 ½" (new)	17#	N80	1600'-8500'	B/LT&C
			5 ½" (new)	17#	HCP110	8500'-12580'	LT&C

Minimum casing design factors: Collapse 1.125, Burst 1.0, Tensile strength 1.8. *Subject to availability of casing.

B. Cementing Program: See COA

See i.

<u>Surface Conductor Pipe</u>: 500 sks Class C cement containing 2% CaCl. Yield at 1.34 cuft/sk. Cmt circulated to surface.

Surface Casing: 500 sacks 35:65 Class "C" light cement containing

1/2#/sk cellophane flakes & 5 lbs/sack gilsonite. Yield at 1.98 cuft/sk. 400 sacks Class "C" cement containing 2% CaCl. Yield at 1.34 cuft/sk. Cmt circulated to

surface.

Sel iv

Intermediate Casing: 500 sacks 35:65 poz mix cement containing 6% gel, 5#/sack gilsonite. Yield at 1.98 cuft/sk. 400 sacks Class C cement containing 2% CaCl. Yield at 1.34 cuft/sk. Cmt circulated to surface.

<u>Production Casing</u>: Plans are to use a Packer-Plus system. A Port Collar will be run at the KOP. 850 sacks 35:65 Class "H" poz mix cement containing 6% gel, 5#/sack gilsonite. Yield at 1.98 cuft/sk. 200 sacks Class H cement w/FLA. Yield at 1.52 cuft/sk. Cement to to be inside casing.

at 1.52 cuft/sk. Cement top to be inside casing.

5. Mud Program:

<u>Interval</u>	Type System	Weight	<u>Viscosity</u>	Fluid Loss
0'-300'	FW spud mud	8.6-9.4	32-34	NA
300'-1300'	Brine water	10.0	28-30	NA
' 1300'-3200'	FW	8.4	28-30	NA
3200'-7350'	FW	8.4-8.6	28-30	NA
7350'-TD' MD	FW/Starch-Polymer	8.4-8.6	32-40	8-15

(Note: Any Weight Above 8.6#/gallon would be to hold back Wolfcamp shale, rather than abnormal BHP.)

lt may become necessary to drill thru the Capitan reef with air-assist to maintain circulation.

6. Evaluation Program:

Samples:

10' samples from intermediate casing to TD

Logging:

Compensated density and dual laterlog from intermediate casing

to TD.

Coring:

As needed for evaluation

Drill Stem Tests:

As needed for evaluation

7. Downhole Conditions

Zones of abnormal pressure:

None anticipated

Zones of lost circulation:

Anticipated in surface and intermediate holes

Maximum bottom hole temperature:

180 degree F

Maximum bottom hole pressure:

9.0 lbs/gal gradient or less

8. Anticipated Starting Date:

Mewbourne Oil Company intends to drill this well as soon as possible after receiving approval with approximately 45 days involved in drilling operations and an additional 10 days involved in completion operations on the project.

^{*}Mewbourne Oil Company reserves the right to change cement designs as hole conditions may warrant.



Job Number: MI-09

Company: Mewbourne Oil Company

Lease/Well: Colt 5 Federal #2H

Location: Eddy County Rig Name: Patterson #45

RKB: 3328'

G.L. or M.S.L.: 3310'

State/Country: New Mexico

Declination:

Grid:

File name: C:\DOCUME~1\RICKEA~1\MYDOCU~1\PROPOS~?\:

Date/Time: 14-May-09 / 08:59 Curve Name: Preliminary Plan

THE DIRECTIONAL DRILLING COMPANY

WINSERVE PROPOSAL REPORT

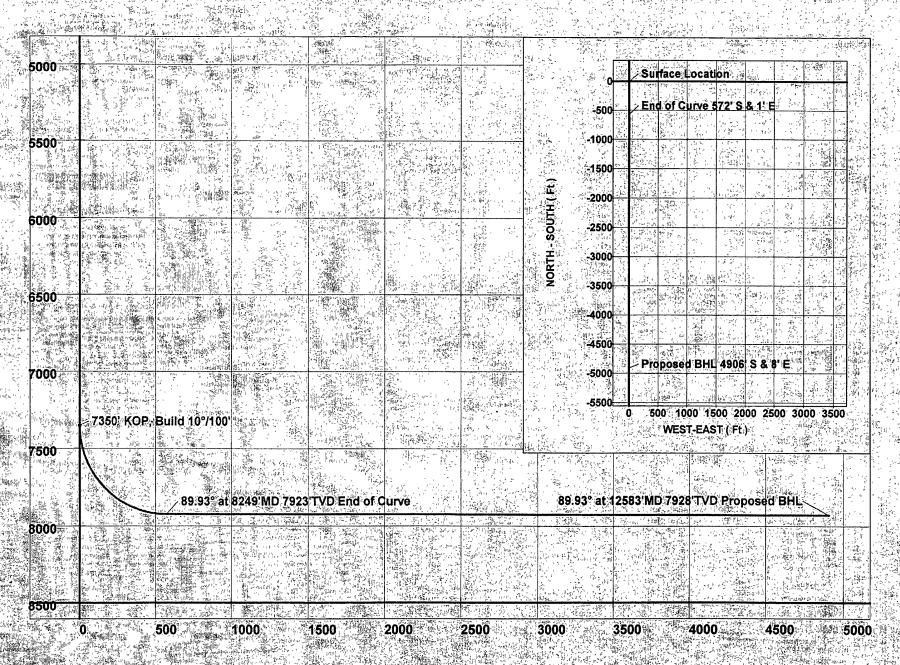
Minimum Curvature Method Vertical Section Plane 179.90 Vertical Section Referenced to Wellhead Rectangular Coordinates Referenced to Wellhead

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	Vertical Section FT	N-S FT	E-W FT	Dogleg Severity Deg/100
KOP, Build	10°/100'						
7350.04	.00	.00	7350.04	.00	.00	.00	.00
7400.04 7450.04 7500.04 7550.04	5.00 10.00 15.00 20.00	179.90 179.90 179.90 179.90	7399.98 7449.54 7498.33 7546.01	2.18 8.70 19.52 34.55	-2.18 -8.70 -19.52 -34.55	.00 .01 .03 .06	10.00 10.00 10.00 10.00
7600.04 7650.04 7700.04 7750.04 7800.04	25.00 30.00 35.00 40.00 45.00	179.90 179.90 179.90 179.90 179.90	7592.18 7636.52 7678.68 7718.33 7755.18	53.68 76.76 103.62 134.05 167.82	-53.68 -76.76 -103.62 -134.05 -167.82	.09 .13 .18 .23 .29	10.00 10.00 10.00 10.00 10.00
7850.04 7900.04 7950.04 8000.04 8050.04	50.00 55.00 60.00 65.00 70.00	179.90 179.90 179.90 179.90 179.90	7788.95 7819.38 7846.24 7869.32 7888.45	204.67 244.32 286.48 330.82 376.99	-204.67 -244.32 -286.48 -330.81 -376.99	.35 .42 .49 .57 .65	10.00 10.00 10.00 10.00
8100.04 8150.04 8200.04	75.00 80.00 85.00	179.90 179.90 179.90	7903.48 7914.30 7920.82	424.67 473.46 523.02	-424.66 -473.46 -523.02	.73 .81 .90	10.00 10.00 10.00
End of Curv	⁄e					-	,
8249.38	89.93	179.90	7923.00	572.30	-572.30	.98	10.00
8349.38 8449.38 8549.38 8649.38	89.93 89.93 89.93 89.93	179.90 179.90 179.90 179.90	7923.12 7923.23 7923.35 7923.46	672.30 772.30 872.30 972.30	-672.30 -772.30 -872.30 -972.30	1.15 1.32 1.49 1.66	.00 .00 .00

• • •	· ·						
Measured [,]	Incl	Drift	True	Vertical			Dogleg
Depth	Angle	Direction	Vertical	Section	N-S	E-W	Severity
• FT	Deg	Deg	Depth	FT	FT	FT	Deg/100
8749.38	89.93	179.90	7923.58	1072.30	-1072.29	1.84	.00
8849.38	89.93	179.90	7923.69	1172.30	-1172.29	2.01	.00
8949.38	89.93	179.90	7923.81	1272.30	-1272.29	2.18	.00
9049.38	89.93	179.90	7923.92	1372.30	-1372.29	2.35	.00
9149.38	89.93	179.90	7924.04	1472.30	-1472.29	2.52	.00
3143.30	09.93	175.50	1324.04	1472.00	-14/2.20	2.02	.00
0040.00	00.00	179.90	7924.15	1572.30	-1572.29	2.69	.00
9249.38	89.93		7924.15 7924.27	1672.30	-1672.29	2.86	.00
9349.38	89.93	179.90	7924.27 7924.38		-1072.29	3.03	.00
9449.38	89.93	179.90		1772.30 1872.30	-1772.29	3.03 3.21	.00
9549.38	89.93	179.90	7924.50			3.38	.00
9649.38	89.93	179.90	7924.62	1972.30	-1972.29	3.30	.00
0740.00	90.03	470.00	7024 72	2072 20	2072 20	3.55	.00
9749.38	89.93	179.90	7924.73	2072.30	-2072.29 -2172.29	3.72	.00
9849.38	89.93	179.90	7924.85	2172.30			
9949.38	89.93	179.90	7924.96	2272.30	-2272.29	3.89	.00
10049.38	89.93	179.90	7925.08	2372.30	-2372.29	4.06	.00
10149.38	89.93	179.90	7925.19	2472.30	-2472.29	4.23	.00
40040.00	00.00	470.00	7025 24	2572.20	-2572.29	4.40	.00
10249.38	89.93	179.90	7925.31	2572.30			.00
10349.38	89.93	179.90	7925.42	2672.30	-2672.29	4.58	
10449.38	89.93	179.90	7925.54	2772.30	-2772.29	4.75	.00
10549.38	89.93	179.90	7925.65	2872.30	-2872.29	4.92	.00
10649.38	89.93	179.90	7925.77	2972.30	-2972.29	5.09	.00
10749.38	89.93	179.90	7925.88	3072.30	-3072.29	5.26	.00
						5.43	.00
10849.38	89.93	179.90	7926.00	3172.30	-3172.29	5.43 5.60	.00
10949.38	89.93	179.90	7926.11	3272.30	-3272.29	5.60 5.77	.00
11049.38	89.93	179.90	7926.23	3372.29	-3372.29		
11149.38	89.93	179.90	7926.35	3472.29	-3472.29	5.94	.00
11249.38	89.93	179.90	7926.46	3572.29	-3572.29	6.12	.00
11349.38	89.93	179.90	7926.58	3672.29 3672.29	-3672.29	6.29	.00
	89.93	179.90	7926.69	3772.29 3772.29	-3772.29	6.46	.00
11449.38					-3772.29 -3872.29	6.63	.00
11549.38	89.93	179.90	7926.81	3872.29	-3972.29 -3972.29	6.80	.00
11649.38	89.93	179.90	7926.92	3972.29	-3812.28	0.00	.00
11749.38	89.93	179.90	7927.04	4072.29	-4072.29	6.97	.00
11849.38	89.93	179.90	7927.15	4172.29	-4172.29	7.14	.00
11949.38	89.93	179.90	7927.15 7927.27	4172.29	-4172.29 -4272.29	7.14 7.31	.00
		179.90	7927.27 7927.38	4372.29	-4272.2 9 -4372.29	7.49	.00
12049.38	89.93					7.49 7.66	.00
12149.38	89.93	179.90	7927.50	4472.29	-4472.29	7.00	.00
12249.38	89.93	179.90	7927.61	4572.29	-4572.29	7.83	.00
12349.38	89.93	179.90	7927.73	4672.29	-4672.29	8.00	.00
12449.38	89.93	179.90	7927.85	4772.29	-4772.29	8.17	.00
12549.38	89.93	179.90	7927.96	4872.29	-4872.29	8.34	.00
Proposed E							
12583.39	89.93	179.90	7928.00	4906.30	-4906.29	8.40	.00
555.55	00.00	110100		.000.00	.5001=0	VI 1V	

Company: Mewbourne Oil Company Lease/Well: Colt 5 Federal #2H Location: Eddy County State/Country: New Mexico





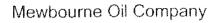


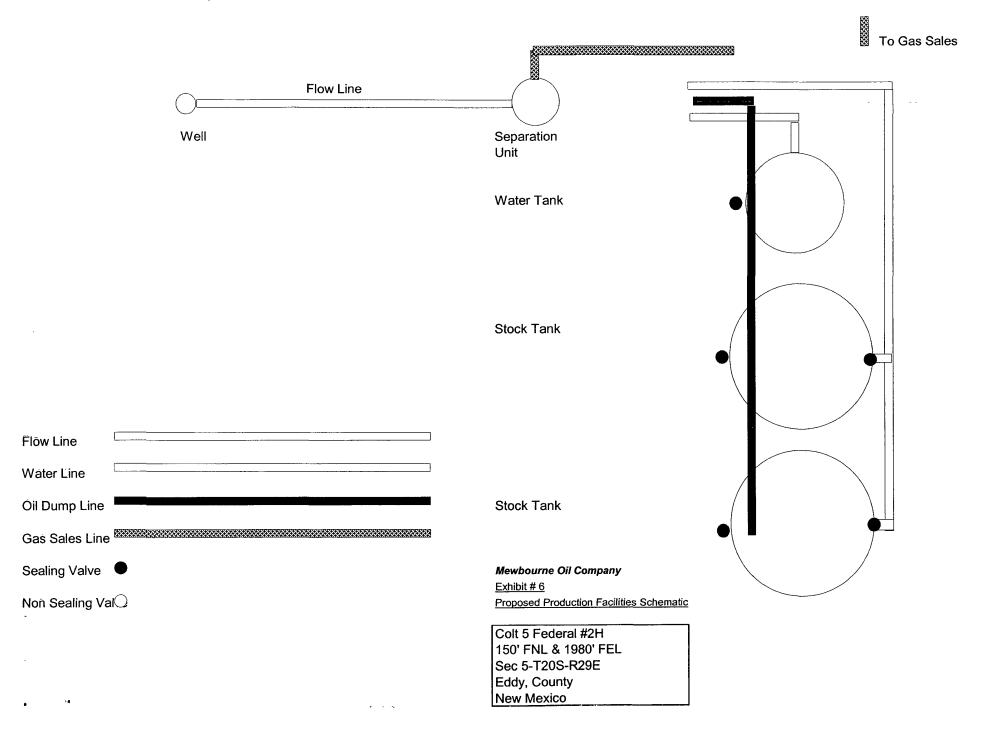
Exhibit #5

Footages STR Sec 5-T20S-R29E County State New Mexico

Mud Loggers Trailer Pits Mud Steel Mud pump Racks Std Cat Walk Mud pmp Substructure Well =O= Dag House Fuel Tank Pipe Racks Water Tank BOP Closing Unit Dog House Trailer Location size 356' x 3cc

Rig Location Schematic

Proposed Production Facilities Schematic



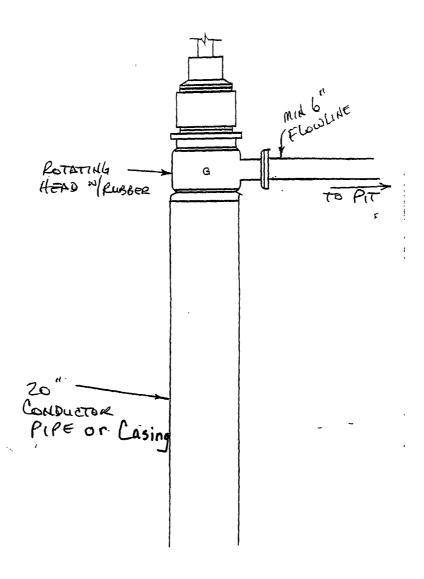
Notes Regarding Blowout Preventer Mewbourne Oil Company

Colt 5 Federal #2H
150' FNL & 1980' FEL, Sec 5-T20S-R29E (Surface Location) Unit Letter B
330' FSL & 1980' FEL, Sec 5-20S-R28E (Bottom hole Location) Unit Letter O
Eddy County, New Mexico

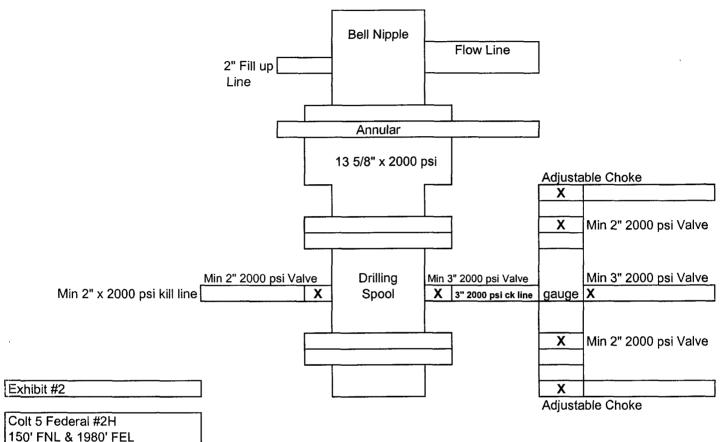
- I. Drilling nipple (bell nipple) to be constructed so that it can be removed without the use of a welder through the opening of the rotary table, with minimum internal diameter equal to blowout preventer bore.
- II. Blowout preventer and all fittings must be in good condition with a minimum 3000 PSI working pressure.
- III. Safety valve must be available on the rig floor at all times with proper connections to install in the drill string. Valve must be full bore with minimum 3000 PSI working pressure.
- IV. Equipment through which bit must pass shall be at least as large as internal diameter of the casing.
- V. A kelly cock shall be installed on the kelly at all times.

Blowout preventer closing equipment to include and accumulator of at least 40 gallon capacity, two independent sources of pressure on closing unit, and meet all other API specifications.

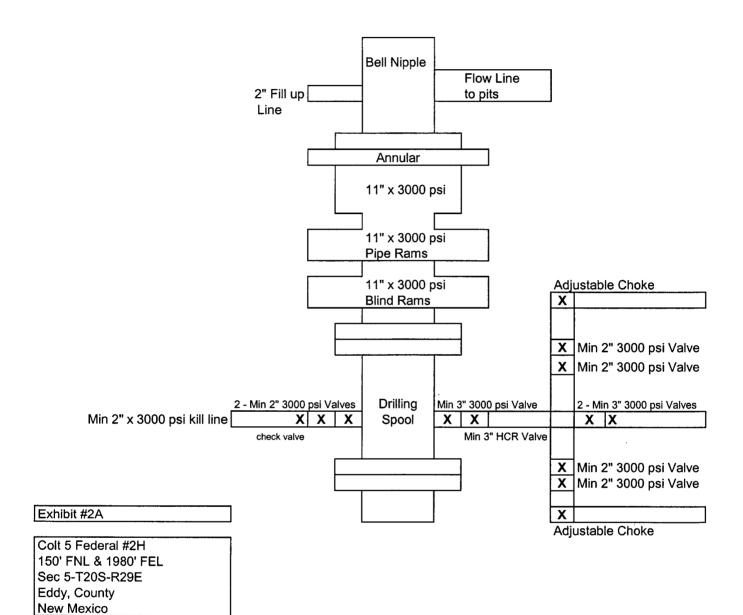
ZO" DIVERTER SYSTEM



Colt 5 Federal #2H 150' FNL + 1980' FEL Sec 5-. T205-R29E Eddy Co., NM



Colt 5 Federal #2H 150' FNL & 1980' FEL Sec 5-T20S-R29E Eddy, County New Mexico



(Suggested configuration)

Hydrogen Sulfide Drilling Operations Plan

Mewbourne Oil Company

Colt 5 Federal #2H

150' FNL & 1980' FEL, Sec 5-T20S-R29E (Surface Location) Unit Letter B 330' FSL & 1980' FEL, Sec 5-20S-R28E (Bottom hole Location) Unit Letter O Eddy County, New Mexico

1. General Requirements

Rule 118 does not apply to this well because MOC has researched this area and no high concentrations of H2S were found. MOC will have on location and working all H2S safety equipment before the Yates formation for purposes of safety and insurance requirements.

2. Hydrogen Sulfide Training

All personnel, whether regularly assigned, contracted, or employed on an unscheduled basis, will have received training from a qualified instructor in the following areas prior to entering the drilling pad area of the well:

- 1. The hazards and characteristics of hydrogen sulfide gas.
- 2. The proper use of personal protective equipment and life support systems.
- 3. The proper use of hydrogen sulfide detectors, alarms, warning systems, briefing areas, evacuation procedures.
- 4. The proper techniques for first aid and rescue operations.

Additionally, supervisory personnel will be trained in the following areas:

- The effects of hydrogen sulfide on metal components. If high tensile tubular systems are utilized, supervisory personnel will be trained in their special maintenance requirements.
- 2 Corrective action and shut in procedures, blowout prevention, and well control procedures while drilling a well.
- The contents of the Hydrogen Sulfide Drilling Operations Plan.

There will be an initial training session prior to encountering a know hydrogen sulfide source. The initial training session shall include a review of the site specific Hydrogen Sulfide Drilling Operations Plan.

3. Hydrogen Sulfide Safety Equipment and Systems

All hydrogen sulfide safety equipment and systems will be installed, tested, and operational prior to drilling below the intermediate casing.

1. Well Control Equipment

- A. Flare line with automatic igniter or continuous ignition source.
- B. Choke manifold with minimum of one adjustable choke.
- C. Blowout preventers equipped with blind rams and pipe rams to accommodate all pipe sizes with properly sized closing unit
- D. Auxiliary equipment including rotating head and annular type blowout preventer.

2. Protective Equipment for Essential Personnel

Thirty minute self contained work unit located at briefing area as indicated on wellsite diagram.

3. <u>Hydrogen Sulfide Protection and Monitoring Equipment</u>

Two portable hydrogen sulfide monitors positioned on location for optimum coverage and detection. The units shall have audible sirens to notify personnel when hydrogen sulfide levels exceed 20 PPM.

4. <u>Visual Warning Systems</u>

- A. Wind direction indicators as indicated on the wellsite diagram.
- B. Caution signs shall be posted on roads providing access to location. Signs shall be painted a high visibility color with lettering of sufficient size to be readable at reasonable distances from potentially contaminated areas.

4. Mud Program

The mud program has been designed to minimize the amount of hydrogen sulfide entrained in the mud system. Proper mud weight, safe drilling practices, and the use of hydrogen sulfide scavengers will minimize hazards while drilling the well.

5. Metallurgy

All tubular systems, wellheads, blowout preventers, drilling spools, kill lines, choke manifolds, and valves shall be suitable for service in a hydrogen sulfide environment when chemically treated.

6. Communications

State & County Officials phone numbers are posted on rig floor and supervisors trailer. Communications in company vehicles and toolpushers are either two way radios or cellular phones.

7. Well Testing

Drill stem testing is not an anticipated requirement for evaluation of this well. A drill stem test is required, it will be conducted with a minimum number of personnel in the immediate vicinity. The test will be conducted during daylight hours only.

8. Emergency Phone Numbers

Eddy County Sheriff's Office	575-746-9888	
Ambulance Service	911 or 575-746-5051	
Artesia Fire Dept	911 or 575-746-5051	
Loco Hills Volunteer Fire De	911 or 575-677-3266	
Closest Medical Facility Art	575-748-3333	
New Mexico State Police	575-746-2703	
Mewbourne Oil Company	Hobbs District Office Fax	575-393-5905 575-397-6252
District Manager	Micky Young	575-390-0999
Drilling Superintendent	Frosty Lathan	575-390-4103
Drilling Foreman	Wesley Noseff	575-441-0729
Drilling Engineer	Levi Jackson	575-631-0589
Drilling Engineer	Charles Martin	575-441-2081

MULTI-POINT SURFACE USE AND OPERATIONS PLAN MEWBOURNE OIL COMPANY

Colt 5 Federal #2H

150' FNL & 1980' FEL, Sec 5-T20S-R29E (Surface Location) Unit Letter B 330' FSL & 1980' FEL, Sec 5-20S-R28E (Bottom hole Location) Unit Letter O Eddy County, New Mexico

This plan is submitted with Form 3160-3, Application for Permit to Drill, Covering the above described well. The purpose of this plan is to describe the location of the proposed well, the proposed construction activities and operations plan, the magnitude of the surface disturbance involved, and the procedures to be followed in restoring the surface so that a complete appraisal can be made of the environmental impact associated with the proposed operations.

1. Existing Roads:

- A. Exhibit #3 is a road map showing the location of the proposed well. Existing roads are highlighted in black and proposed road is highlighted in blue. Exhibit #3A is a topographic map showing the location of the proposed well and access road. Existing and proposed roads are highlighted in black.
- B. Directions to location from Carlsbad NM: NE on US 62/180 to MM 44. Turn left (North) on magnum road (CR 243) continue north 5.7 miles to Burton Flat road (CR 238). Turn right (east) & continue east 2.0 miles. Turn left (north) & continue north 1.0 miles then west 0.2 miles. Turn right (north) & continue N & NE 0.6 miles. Turn left (north) & continue north & NW 0.5 miles. Turn left (SW) & continue SW 04 miles. Turn right (north) & continue north 0.4 miles. Turn right (east) 0.2 miles to location.

2. Proposed Access Road:

- A Approx 900' of new road will be needed.
- B. The access to the location will be limited to 16' in width and will adequately drain runoff and control erosion as presently constructed.

3. Location of Existing Wells:

There are producing wells within the immediate vicinity of the well site. Exhibit #4 shows the proposed well and existing wells within a one mile radius.

4. Location of Existing and/or Proposed Facilities:

- A. There are no production facilities on this lease at the present time.
- B. In the event that the well is productive, production facilities will be located on the well pad.
- C. All production vessels left on location will be painted to conform with BLM painting stipulations within 180 days of installation.

Can Mederal Fun Page 2

5. Location and Type of Water Supply.

The well will be drilled with a combination of fresh water and brine water based mud systems. The water will be obtained from commercial suppliers in the area and/or hauled to the location by transport trucks over existing and proposed roads as indicated in Exhibit #3.

6. Source of Construction Materials

All material required for construction of the drill pad and access roads will be obtained from private, state, or federal pits. The construction contractor will be solely responsible for securing construction materials required for this operation and paying any royalties that may be required on those materials.

7. Methods of Handling Waste Disposal:

- A. Drill cuttings not retained for evaluation purpose will be hauled off to an approved disposal facility.
- B. Drilling fluids will be hauled off to an approved disposal facility.
- C. Water produced during operations will be disposed of at an approved disposal facility.
- 1) If any liquid hydrocarbons are produced during operations, those liquids will be stored in suitable tanks until sold.
- E. Current regulations regarding the proper disposal of human waste will be followed.
- F. All trash, junk, and other waste materials will be stored in proper containers to prevent dispersal and will be removed to an appropriate facility within one week of cessation of drilling and completion activities.

8. Ancillary Facilities

There are no ancillary facilities within the immediate vicinity of the proposed well site.

9. Well Site Layout

- A diagram of the drill pad is shown in Exhibit #5. Dimensions of the pad and location of major rig components are shown.
- B The pad dimension of 350' X 300' has been staked and flagged.
- An archaeological survey is in the process of being conducted on the proposed location pad.

10. Plans for Restoration of Surface

A. Upon cessation of the proposed operations, if the well is abandoned, the location and road will be ripped and re-seeded. The entire location will be restored to the original contour as much as reasonable possible. All trash, garbage, and pit lining will be hauled to appropriate disposal to assure the location is aesthetically pleasing as reasonable possible. All restoration work will be completed within 180 days of cessation of activities.

MULTI-POINT SURFACE USE AND OPERATIONS PLAN MEWBOURNE OIL COMPANY

Colt 5 Federal #2H

Page 3

- B. Within 6 months after initial completion, the pad will be downsized. The disturbed area will be restored by reseeding during the proper growing season.
- C. Any additional caliche required for production facilities will be obtained from a source as described in Section 6.
- D. Within 90 days of cessation of drilling and completion operations, all equipment not necessary for production operations will be removed. The location will be cleaned of all trash and junk to assure the well site is left as aesthetically pleasing as reasonably possible.

11. Surface Ownership:

The surface is owned by:

Located entirely on federal surface.

12. Other Information:

A. Topography: Refer to the archaeological report for a detailed description of flora,

fauna, soil characteristics, dwellings, and historical or cultural sites.

B. The primary use of the surface at the location is for grazing of livestock.

13. Operator's Representative:

A. Through APD approval, drilling, completion and production operations:

N.M. Young, District Manager Mewbourne Oil Company PO Box 5270 Hobbs, NM 88241 575-393-5905

Mewbourne Oil Company

PO Box 5270 Hobbs, NM 88241 (575) 393-5905

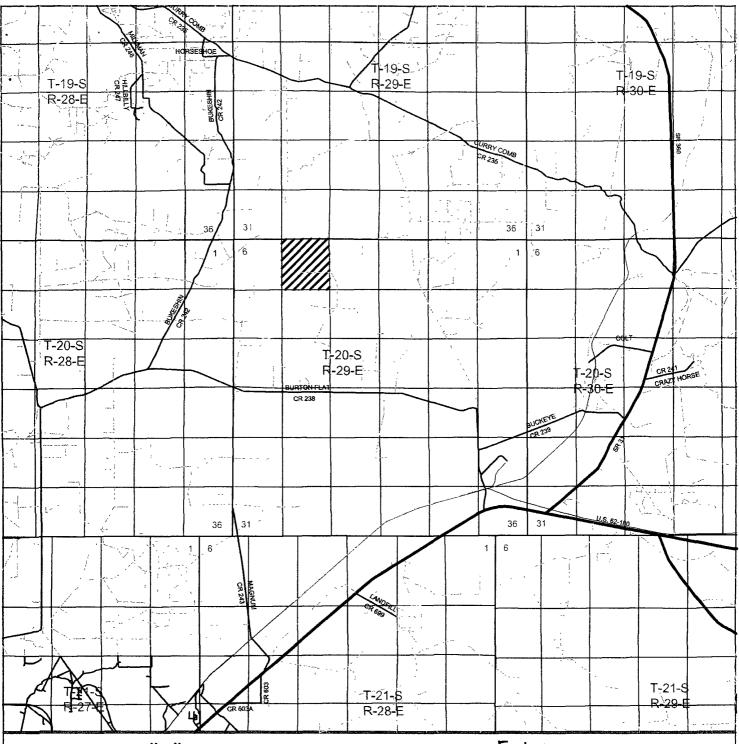
I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route for the Colt 5 Federal #2H, 150' FNL & 1980' FEL of Sec 5-T20S- R29E, Eddy County, New Mexico; that I am familiar with the conditions which currently exist; that the statements made in this plan are to the best of my knowledge, true and correct; and the work associated with the operations proposed herein will be performed by Mewbourne Oil Company, its contractors and subcontractors, in accordance with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

Signature: M.M.

Date: May 1 1 2009

Print: NM Young

Hobbs District Manager



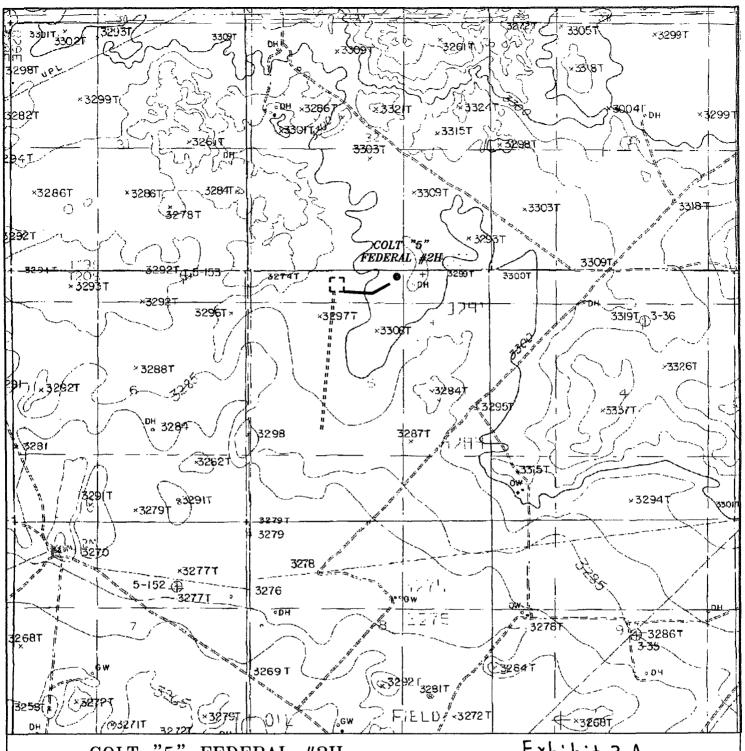
COLT "5" FEDERAL #2H Exhibit 3
Located 150' FNL and 1980' FEL
Section 5, Township 20 South, Range 29 East,
N.M.P.M., Eddy County, New Mexico.



P.O. Box 1786 1120 N. West County Rd. Hobbs, New Mexico 88241 (575) 393—7316 — Office (575) 392—2206 — Fax basinsurveys.com

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The second second	Survey Date: 05-07-2009	
Transport of the last of the l	Scale: 1" = 2 Miles	
The second	Date: 02-27-2008	

MEWBOURNE OIL COMPANY



COLT "5" FEDERAL #2H

Located 150' FNL and 1980' FEL

Section 5, Township 20 South, Range 29 East,

N.M.P.M., Eddy County, New Mexico.



P.O. Box 1786 1120 N. West County Rd. Hobbs, New Mexico 88241 (575) 393-7316 — Office (575) 392-2206 — Fax basinsurveys.com

W.O. Number: JMS 21325

Survey Date: 05-07-2009

Scale: 1" = 2000'

Date: 02-27-2008

MEWBOURNE OIL COMPANY

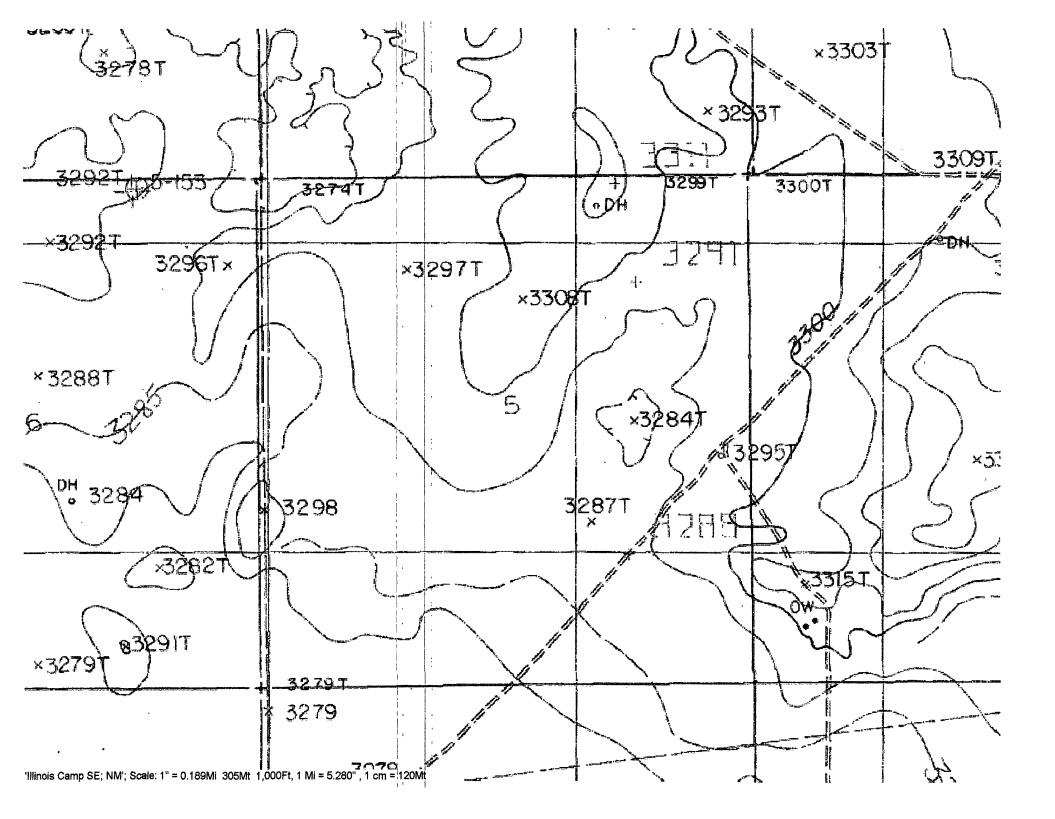


Exhibit #4 Status of Wells in Immediate Vicinity

Mewbourne Oil Company Colt 5 Federal #2H 150' FNL & 1980' FEL Sec 5-T20S-R29E Eddy County, New Mexico

Section 5-T20S-R29E

Operator:

Mewbourne Oil Company

Well Name:

Colt 5 Fed Com #1

Unit letter:

G

Status:

Flowing

Field:

Burton Flat Atoka East

Section 5-T20S-R29E

Operator:

Mewbourne Oil Company

Well Name:

Gatuna Canyon 5 #3

Unit letter:

Lot 3

Status:

Pumping

Field:

Winchester Bone Spring

Section 5-T20S-R29E

Operator:

Cimarex Energy of Colorado

Well Name:

Superior Fed #4

Unit letter:

Ι

Status:

Flowing

Field:

Winchester; Bone Spring

PECOS DISTRICT CONDITIONS OF APPROVAL

OPERATOR'S NAME: Mewbourne Oil Co
LEASE NO.: NM0144698
WELL NAME & NO.: 2H Colt 5 Federal
SURFACE HOLE FOOTAGE: 150' FNL & 1980' FEL
BOTTOM HOLE FOOTAGE 330' FSL & 1980' FEL
LOCATION: Section 5, T. 20 S., R 29 E., NMPM
COUNTY: Eddy County, New Mexico

TABLE OF CONTENTS

Standard Conditions of Approval (COA) apply to this APD. If any deviations to these standards exist or special COAs are required, the section with the deviation or requirement will be checked below.

General Provisions
Permit Expiration
Archaeology, Paleontology, and Historical Sites
Noxious Weeds
Special Requirements
Cave/Karst
☐ Construction
Notification
Topsoil
Reserve Pit
Federal Mineral Material Pits
Well Pads
Roads
Road Section Diagram
☑ Drilling
High cave/karst
☐ Production (Post Drilling)
Well Structures & Facilities
☐ Interim Reclamation
Final Abandonment/Reclamation

I. GENERAL PROVISIONS

The approval of the Application For Permit To Drill (APD) is in compliance with all applicable laws and regulations: 43 Code of Federal Regulations 3160, the lease terms, Onshore Oil and Gas Orders, Notices To Lessees, New Mexico Oil Conservation Division (NMOCD) Rules, National Historical Preservation Act As Amended, and instructions and orders of the Authorized Officer. Any request for a variance shall be submitted to the Authorized Officer on Form 3160-5, Sundry Notices and Report on Wells.

II. PERMIT EXPIRATION

If the permit terminates prior to drilling and drilling cannot be commenced within 60 days after expiration, an operator is required to submit Form 3160-5, Sundry Notices and Reports on Wells, requesting surface reclamation requirements for any surface disturbance. However, if the operator will be able to initiate drilling within 60 days after the expiration of the permit, the operator must have set the conductor pipe in order to allow for an extension of 60 days beyond the expiration date of the APD. (Filing of a Sundry Notice is required for this 60 day extension.)

III. ARCHAEOLOGICAL, PALEONTOLOGY & HISTORICAL SITES

Any cultural and/or paleontological resource discovered by the operator or by any person working on the operator's behalf shall immediately report such findings to the Authorized Officer. The operator is fully accountable for the actions of their contractors and subcontractors. The operator shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery shall be made by the Authorized Officer to determine the appropriate actions that shall be required to prevent the loss of significant cultural or scientific values of the discovery. The operator shall be held responsible for the cost of the proper mitigation measures that the Authorized Officer assesses after consultation with the operator on the evaluation and decisions of the discovery. Any unauthorized collection or disturbance of cultural or paleontological resources may result in a shutdown order by the Authorized Officer.

IV. NOXIOUS WEEDS

The operator shall be held responsible if noxious weeds become established within the areas of operations. Weed control shall be required on the disturbed land where noxious weeds exist, which includes the roads, pads, associated pipeline corridor, and adjacent land affected by the establishment of weeds due to this action. The operator shall consult with the Authorized Officer for acceptable weed control methods, which include following EPA and BLM requirements and policies.

V. SPECIAL REQUIREMENT(S) Cave and Karst

** Depending on location, additional Drilling, Casing, and Cementing procedures may be required by engineering to protect critical karst groundwater recharge areas.

Cave/Karst Surface Mitigation

The following stipulations will be applied to minimize impacts during construction, drilling and production.

Construction:

In the advent that any underground voids are opened up during construction activities, construction activities will be halted and the BLM will be notified immediately.

No Blasting:

No blasting will be utilized for pad construction. The pad will be constructed and leveled by adding the necessary fill and caliche.

Pad Berming:

The pad will be bermed to prevent oil, salt, and other chemical contaminants from leaving the pad. All sides will be bermed.

Tank Battery Liners and Berms:

Tank battery locations will be lined and bermed. A 20 mil permanent liner will be installed with a 4 oz. felt backing to prevent tears or punctures. Tank battery berms must be large enough to contain 1 ½ times the content of the largest tank.

Leak Detection System:

A method of detecting leaks is required. The method could incorporate gauges to measure loss, situating values and lines so they can be visually inspected, or installing electronic sensors to alarm when a leak is present. Leak detection plan will be submitted to BLM for approval.

Automatic Shut-off Systems:

Automatic shut off, check values, or similar systems will be installed for pipelines and tanks to minimize the effects of catastrophic line failures used in production or drilling.

Cave/Karst Subsurface Mitigation

The following stipulations will be applied to protect cave/karst and ground water concerns:

Rotary Drilling with Fresh Water:

Fresh water will be used as a circulating medium in zones where caves or karst features are expected. SEE ALSO: Drilling COAs for this well.

Directional Drilling:

Kick off for directional drilling will occur at least 100 feet below the bottom of the cave occurrence zone. SEE ALSO: Drilling COAs for this well.

Lost Circulation:

ALL lost circulation zones from the surface to the base of the cave occurrence zone will be logged and reported in the drilling report.

Regardless of the type of drilling machinery used, if a void of four feet or more and circulation losses greater than 70 percent occur simultaneously while drilling in any cave-bearing zone, the BLM will be notified immediately by the operator. The BLM will assess the situation and work with the operator on corrective actions to resolve the problem.

Abandonment Cementing:

Upon well abandonment in high cave karst areas additional plugging conditions of approval may be required. The BLM will assess the situation and work with the operator to ensure proper plugging of the wellbore.

Pressure Testing:

Annual pressure monitoring will be performed by the operator on all casing annuli and reported in a sundry notice. If the test results indicated a casing failure has occurred, remedial action will be undertaken to correct the problem to the BLM's approval.

VI. CONSTRUCTION

A. NOTIFICATION

The BLM shall administer compliance and monitor construction of the access road and well pad. Notify the Carlsbad Field Office at (575) 234-5972 at least 3 working days prior to commencing construction of the access road and/or well pad.

When construction operations are being conducted on this well, the operator shall have the approved APD and Conditions of Approval (COA) on the well site and they shall be made available upon request by the Authorized Officer.

B. TOPSOIL

The operator shall stockpile the topsoil of the well pad. The topsoil to be stripped is approximately 4 inches in depth. The topsoil shall not be used to backfill the reserve pit and will be used for interim and final reclamation.

C. RESERVE PITS

Tanks are required for drilling operations: No Pits.

The operator shall properly dispose of drilling contents at an authorized disposal site.

D. FEDERAL MINERAL MATERIALS PIT

If the operator elects to surface the access road and/or well pad, mineral materials extracted during construction of the reserve pit may be used for surfacing the well pad and access road and other facilities on the lease.

Payment shall be made to the BLM prior to removal of any additional federal mineral materials from any site other than the reserve pit. Call the Carlsbad Field Office at (575) 234-5972.

E. WELL PAD SURFACING

Surfacing of the well pad is not required.

If the operator elects to surface the well pad, the surfacing material may be required to be removed at the time of reclamation.

The well pad shall be constructed in a manner which creates the smallest possible surface disturbance, consistent with safety and operational needs.

F. ON LEASE ACCESS ROADS

Road Width

The access road shall have a driving surface that creates the smallest possible surface disturbance and does not exceed fourteen (14) feet in width. The maximum width of surface disturbance, when constructing the access road, shall not exceed thirty (30) feet.

Surfacing

Surfacing material is not required on the new access road driving surface. If the operator elects to surface the new access road or pad, the surfacing material may be required to be removed at the time of reclamation.

Where possible, no improvements should be made on the unsurfaced access road other than to remove vegetation as necessary, road irregularities, safety issues, or to fill low areas that may sustain standing water.

The Authorized Officer reserves the right to require surfacing of any portion of the access road at any time deemed necessary. Surfacing may be required in the event the road deteriorates, erodes, road traffic increases, or it is determined to be beneficial for future field development. The surfacing depth and type of material will be determined at the time of notification.

Crowning

Crowning shall be done on the access road driving surface. The road crown shall have a grade of approximately 2% (i.e., a 1" crown on a 14' wide road). The road shall conform to Figure 1; cross section and plans for typical road construction.

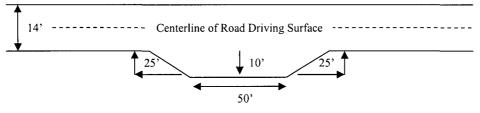
Ditching

Ditching shall be required on both sides of the road.

Turnouts

Vehicle turnouts shall be constructed on the road. Turnouts shall be intervisible with interval spacing distance less than 1000 feet. Turnouts shall be constructed on all blind curves. Turnouts shall conform to the following diagram:

Standard Turnout - Plan View

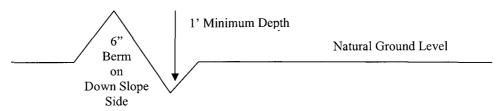


Drainage

Drainage control systems shall be constructed on the entire length of road (e.g. ditches, sidehill outsloping and insloping, lead-off ditches, culvert installation, and low water crossings).

A typical lead-off ditch has a minimum depth of 1 foot below and a berm of 6 inches above natural ground level. The berm shall be on the down-slope side of the lead-off ditch.

Cross Section of a Typical Lead-off Ditch



All lead-off ditches shall be graded to drain water with a 1 percent minimum to 3 percent maximum ditch slope. The spacing interval are variable for lead-off ditches and shall be determined according to the formula for spacing intervals of lead-off ditches, but may be amended depending upon existing soil types and centerline road slope (in %);

Formula for Spacing Interval of Lead-off Ditches

Example - On a 4% road slope that is 400 feet long, the water flow shall drain water into a lead-off ditch. Spacing interval shall be determined by the following formula:

400 foot road with 4% road slope:
$$\frac{400'}{4\%} + 100' = 200'$$
 lead-off ditch interval

Culvert Installations

Appropriately sized culvert(s) shall be installed at the deep waterway channel flow crossing.

Cattleguards

An appropriately sized cattleguard(s) sufficient to carry out the project shall be installed and maintained at fence crossing(s).

Any existing cattleguard(s) on the access road shall be repaired or replaced if they are damaged or have deteriorated beyond practical use. The operator shall be responsible for the condition of the existing cattleguard(s) that are in place and are utilized during lease operations.

A gate shall be constructed and fastened securely to H-braces.

Fence Requirement

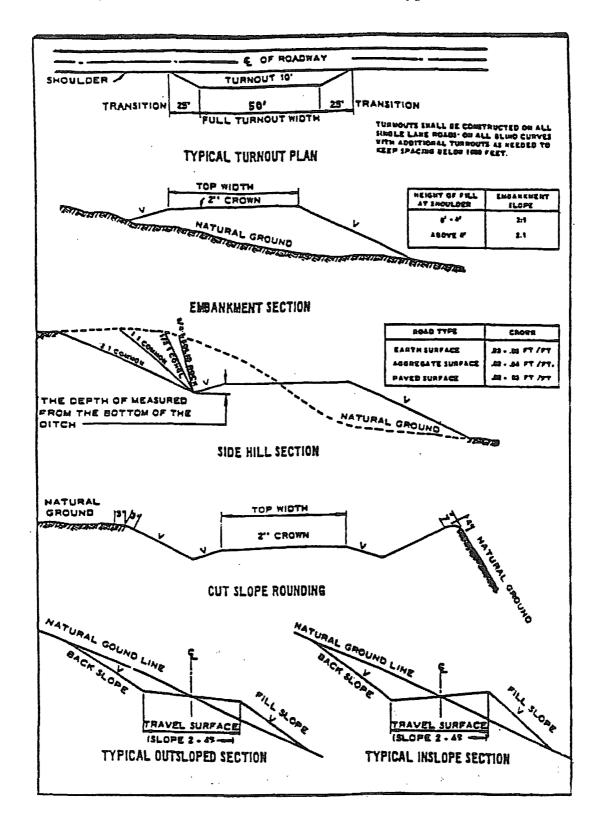
Where entry is required across a fence line, the fence shall be braced and tied off on both sides of the passageway prior to cutting.

The operator shall notify the private surface landowner or the grazing allotment holder prior to crossing any fence(s).

Public Access

Public access on this road shall not be restricted by the operator without specific written approval granted by the Authorized Officer.

Figure 1 - Cross Sections and Plans For Typical Road Sections



VII. DRILLING

A. DRILLING OPERATIONS REQUIREMENTS

The BLM is to be notified a minimum of 4 hours in advance for a representative to witness:

- a. Spudding well
- b. Setting and/or Cementing of all casing strings
- c. BOPE tests

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 this section, it is always a potential hazard. If Hydrogen Sulfide is encountered, please report measured amounts and formations to the BLM.
- 2. 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.
- 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 are located, this does not include the dog house or stairway area.

B. CASING

Changes to the approved APD casing and cement program require submitting a sundry and receiving approval prior to work. Failure to obtain approval prior to work will result in an Incident of Non-Compliance being issued.

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

Wait on cement (WOC) time 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. 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.

High cave/karst.

Possible brine and fresh water flows in the Salado Group, Capitan Reef and the Artesia Group.

Possible loss of circulation in the Capitan Reef, Grayburg and San Andres.

- 1. The 20 inch surface casing shall be set at approximately 430 feet (a minimum of 25 feet into the Rustler Anhydrite and above the salt) and cemented to the surface. Additional cement will be required as the excess calculates to a negative 15%.
 - 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 a surface log readout will be used or a cement bond log shall be run to verify the top of the cement.
 - 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.
- 2. The minimum required fill of cement behind the 13-3/8 inch first intermediate casing is:
 - □ Cement to surface. If cement does not circulate see B.1.a, c-d above.
 The casing should be set at approximately 1450 feet within the Seven Rivers Formation. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to high cave/karst and Capitan Reef concerns.
- 3. The minimum required fill of cement behind the 9-5/8 inch second intermediate casing is:
 - 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 high cave/karst and Capitan Reef concerns.

If lost circulation occurs while drilling the 9-5/8 inch second intermediate then the production string must be cemented to surface.

- 4. The minimum required fill of cement behind the 5-1/2 inch production casing is:
 - a. A port collar is to be run at the KOP of approximately 7350 feet, cement shall:
 - Cement should tie-back at least 200 feet into the previous casing string. Operator shall provide method of verification.
 - b. From the KOP to the end of the production string at approximately 12580 feet measured depth.
 - No cement required − using the Packer-Plus system.
- 5. 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. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface and the 13-3/8 inch casing shoe shall be 2000 (2M) psi. A variance will be granted for the use of a diverter on the 20 inch surface conductor casing.
- 3. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the 9-5/8 second intermediate casing shoe shall be 3000 (3M) psi.
- 4. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - a. The tests shall be done by an independent service company.
 - b. The results of the test shall be reported to the appropriate BLM office.
 - c. 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.

- d. 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.
- e. Effective November 1, 2008, no variances will be granted on reduced pressure tests on the surface casing and BOP/BOPE. Onshore Order 2 requirements will be in effect.

D. DRILLING MUD

Approved for aerated mud in the Capitan Reef, but not air drilling.

E. DRILL STEM TEST

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

RGH 062409

VIII. PRODUCTION (POST DRILLING)

A. WELL STRUCTURES & FACILITIES

Placement of Production Facilities

Production facilities should be placed on the well pad to allow for maximum interim recontouring and revegetation of the well location.

Containment Structures

The containment structure shall be constructed to hold the capacity of the entire contents of the largest tank, plus 24 hour production, unless more stringent protective requirements are deemed necessary by the Authorized Officer.

Painting Requirement

All above-ground structures including meter housing that are not subject to safety requirements shall be painted a flat non-reflective paint color Shale Green, Munsell Soil Color Chart # 5Y 4/2

IX. INTERIM RECLAMATION & RESERVE PIT CLOSURE

A. INTERIM RECLAMATION

If the well is a producer, interim reclamation shall be conducted on the well site in accordance with the orders of the Authorized Officer. The operator shall submit a Sundry Notices and Reports on Wells (Notice of Intent), Form 3160-5, prior to conducting interim reclamation.

During the life of the development, all disturbed areas not needed for active support of production operations should undergo interim reclamation in order to minimize the environmental impacts of development on other resources and uses.

The operators should work with BLM surface management specialists to devise the best strategies to reduce the size of the location. Any reductions should allow for remedial well operations, as well as safe and efficient removal of oil and gas.

During reclamation, the removal of caliche is important to increasing the success of revegetating the site. Removed caliche may be used for road repairs, fire walls or for building other roads and locations. In order to operate the well or complete workover operations, it may be necessary to drive, park and operate on restored interim vegetation within the previously disturbed area. Disturbing revegetated areas for production or workover operations will be allowed. If there is significant disturbance and loss of vegetation, the area will need to be revegetated. Communicate with the appropriate BLM office for any exceptions/exemptions if needed.

Seed Mixture 4, for Gypsum Sites

The holder shall seed all disturbed areas with the seed mixture listed below. The seed mixture shall be planted in the amounts specified in pounds of pure live seed (PLS)* per acre. There shall be <u>no</u> primary or secondary noxious weeds in the seed mixture. Seed will be tested and the viability testing of seed will be done in accordance with State law(s) and within nine (9) months prior to purchase. Commercial seed will be either certified or registered seed. The seed container will be tagged in accordance with State law(s) and available for inspection by the authorized officer.

Seed will be planted using a drill equipped with a depth regulator to ensure proper depth of planting where drilling is possible. The seed mixture will be evenly and uniformly planted over the disturbed area (smaller/heavier seeds have a tendency to drop the bottom of the drill and are planted first). The holder shall take appropriate measures to ensure this does not occur. Where drilling is not possible, seed will be broadcast and the area shall be raked or chained to cover the seed. When broadcasting the seed, the pounds per acre are to be doubled. The seeding will be repeated until a satisfactory stand is established as determined by the authorized officer. Evaluation of growth will not be made before completion of at least one full growing season after seeding.

Species to be planted in pounds of pure live seed* per acre:

Species	<u>lb/acre</u>
Alkali Sacaton (Sporobolus airoides)	1.0
DWS Four-wing saltbush (Atriplex canescens)	5.0

DWS: DeWinged Seed

Pounds of seed x percent purity x percent germination = pounds pure live seed (Insert Seed Mixture Here)

^{*}Pounds of pure live seed:

X. FINAL ABANDONMENT & REHABILITATION REQUIREMENTS

Upon abandonment of the well and/or when the access road is no longer in service the Authorized Officer shall issue instructions and/or orders for surface reclamation and restoration of all disturbed areas.

On private surface/federal mineral estate land the reclamation procedures on the road and well pad shall be accomplished in accordance with the private surface land owner agreement.