

Submit 3 Copies To Appropriate District Office

District I

1625 N. French Dr., Hobbs, NM 88240

District II

1301 W. Grand Ave., Artesia, NM 88210

District III

1000 Rio Brazos Rd., Aztec, NM 87410

District IV

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

State of New Mexico
Energy, Minerals and Natural Resources

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-103
May 27, 2004

WELL API NO. 30-025-37851	
5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>	
6. State Oil & Gas Lease No.	
7. Lease Name or Unit Agreement Name Vacuum Glorieta East Unit	
8. Well Number 021	
9. OGRID Number 217817	
10. Pool name or Wildcat Vacuum; Glorieta	
SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)	
1. Type of Well: Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other	
2. Name of Operator ConocoPhillips Company	
3. Address of Operator 3300 N. "A" St., Bldg. 6 Midland, TX 79705-5490	
4. Well Location Unit Letter <u>A</u> : <u>1200</u> feet from the <u>North</u> line and <u>525</u> feet from the <u>East</u> line Section <u>32</u> Township <u>17S</u> Range <u>35E</u> NMPM County <u>Lea</u>	
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3954' GR	
Pit or Below-grade Tank Application <input type="checkbox"/> or Closure <input type="checkbox"/>	
Pit type _____ Depth to Groundwater _____ Distance from nearest fresh water well _____ Distance from nearest surface water _____	
Pit Liner Thickness: _____ mil Below-Grade Tank: Volume _____ bbls; Construction Material _____	

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐
TEMPORARILY ABANDON ☐ CHANGE PLANS ☐
PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐

OTHER: ☐

SUBSEQUENT REPORT OF:

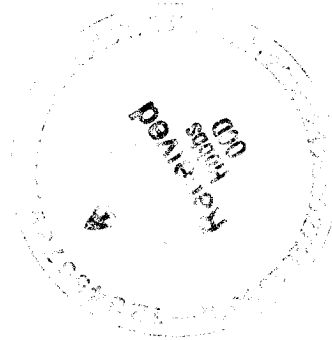
REMEDIAL WORK ☐ ALTERING CASING ☐
COMMENCE DRILLING OPNS. ☒ P AND A ☐
CASING/CEMENT JOB ☐

OTHER: ☐

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

04/17/07 - 04/29/07

Well drilled & casing set per attached Daily Operations Report.



I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that any pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines ☐, a general permit ☐ or an (attached) alternative OCD-approved plan ☒.

SIGNATURE Celeste G. Dale TITLE Regulatory Specialist DATE 05/03/2007

Type or print name Celeste G. Dale

For State Use Only

E-mail address: celeste.g.dale@conocophillips.com Telephone No. (432) 688-6884
OC FIELD REPRESENTATIVE II/STAFF MANAGER MAY 15 2007

APPROVED BY: [Signature] TITLE _____ DATE _____

Conditions of Approval (if any):



Timelog Summary Report

VACUUM GLORIETA EAST UNIT PH 4 2-021

Common WellName VACUUM GLORIETA EAST UNIT PH 4 2-021		Primary Job Type DRILLING ORIGINAL		Job Category DRILLING	
Actual Start Date 4/15/2007	End Date 4/29/2007	Spud / KO Date 4/16/2007	Rig Accept Date 4/16/2007	Rig Release Date 4/29/2007	
Contractor SLEDGE DRILLING CORP			Rig Name/No 10		
Report Number 1		Report Start Date 4/16/2007		Report End Date 4/17/2007	

Time Log

Start Time	End Time	Dur (hrs)	Op Code	OpSub-Code	Phase	Operation
06:00	07:30	1.50	MOVE	WODL	MIRU	WAIT ON DAYLIGHT AND TRUCKS
07:30	08:00	0.50	MOVE	SFTY	MIRU	PJSM-RIG CREW& TRUCK CREW
08:00	10:00	2.00	MOVE	DMOB	MIRU	MOVE RIG OFF OF VGEU 02-22
10:00	15:00	5.00	MOVE	WEOQ	MIRU	REDRILL RAT HOLE & MOUSE HOLE
15:00	21:00	6.00	MOVE	RURD	MIRU	RU RT ON VGEU PH4 02-021
OBJECTIVE: DRILL & COMPLETE GLORIETA OIL WELL						
SECTION 32, T-17S, R-35-E LEA COUNTY, NEW MEXICO						
NOTIFICATION OF INTENT TO SPUD APRIL 16, 2007@ 0830 CST						
21:00	21:30	0.50	DRILL	SFTY	SURFAC	PRE SPUD SAFETY INSPECTION- ALL CORRECTIONS MADE
21:30	22:30	1.00	DRILL	WOSP	SURFAC	WAIT ON SPUD LOAD
22:30	00:00	1.50	DRILL	OTHR	SURFAC	MIX SPUD MUD
00:00	00:15	0.25	DRILL	SFTY	SURFAC	PSSM
00:15	03:15	3.00	DRILL	DRLG	SURFAC	SPUD WELL-DRILL F/40' TO 287'
03:15	03:30	0.25	DRILL	SRVY	SURFAC	WLS@ 247'- .25"
03:30	06:00	2.50	DRILL	DRLG	SURFAC	DRILL F/ 287' TO 521'

Report Number 2			Report Start Date 4/17/2007		Report End Date 4/18/2007	
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Time Log

Start Time	End Time	Dur (hrs)	Op Code	OpSub-Code	Phase	Operation
06:00	06:30	0.50	DRILL	DRLG	SURFAC	DRILL F/ 521' TO 552'
06:30	06:45	0.25	DRILL	SRVY	SURFAC	WLS@ 508'- 1.0"
06:45	12:15	5.50	DRILL	DRLG	SURFAC	DRILL F/ 552' TO 789'
12:15	12:45	0.50	DRILL	SRVY	SURFAC	WLS@ 745'- 1.5"- SERVICE RIG
12:45	18:00	5.25	DRILL	DRLG	SURFAC	DRILL F/ 789' TO 945'
18:00	18:15	0.25	DRILL	SRVY	SURFAC	WLS@905' -1.25"
18:15	23:30	5.25	DRILL	DRLG	SURFAC	DRILL F/ 945' TO 1132'
23:30	23:45	0.25	DRILL	SRVY	SURFAC	WLS@ 1105'- .50"
23:45	06:00	6.25	DRILL	DRLG	SURFAC	DRILL F/ 1132' TO 1305'

Report Number 3			Report Start Date 4/18/2007		Report End Date 4/19/2007	
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Time Log

Start Time	End Time	Dur (hrs)	Op Code	OpSub-Code	Phase	Operation
06:00	09:00	3.00	DRILL	DRLG	SURFAC	DRILL F/ 1305' TO 1388'
09:00	09:45	0.75	DRILL	SRVY	SURFAC	WLS@ 1344'-1.00"- SERVICE RIG
09:45	12:30	2.75	DRILL	DRLG	SURFAC	DRILL F/ 1388' TO 1428'
12:30	17:00	4.50	DRILL	TRIP	SURFAC	PLUGGED BIT- TRIP TO CLEAN OUT
17:00	02:30	9.50	DRILL	TRIP	SURFAC	HOLE FELL IN- WORK BIT UNTIL FREE
02:30	04:30	2.00	DRILL	DRLG	SURFAC	REAM BACK TO BTM- CLEAN UP HOLE
04:30	06:00	1.50	DRILL	DRLG	SURFAC	DRILL F/ 1428' TO 1453'

Report Number 4			Report Start Date 4/19/2007		Report End Date 4/20/2007	
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Time Log

Start Time	End Time	Dur (hrs)	Op Code	OpSub-Code	Phase	Operation
06:00	19:00	13.00	DRILL	DRLG	SURFAC	DRILL F/1453'-1602' TD SURFACE.
19:00	20:45	1.75	DRILL	CIRC	SURFAC	CIRC. & COND. HOLE
20:45	02:00	5.25	DRILL	TRIP	SURFAC	TOOH/LD 8" DC- HAD TO WORK 2 STDS DP
02:00	06:00	4.00	CASING	RNCS	SURFAC	RUN 8 5/8" CSG- PICK UP 2 STDS DC TO REAM OUT @ 120' WATER SAND

Report Number 5			Report Start Date 4/20/2007		Report End Date 4/21/2007	
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Time Log

Start Time	End Time	Dur (hrs)	Op Code	OpSub-Code	Phase	Operation
06:00	07:00	1.00	DRILL	REAM	SURFAC	PU 2 STDS OF DC TO REAM OUT 120'.



Timelog Summary Report

VACUUM GLORIETA EAST UNIT PH 4 2-021

Time Log

Start Time	End Time	Dur (hrs)	Op Code	OpSub-Code	Phase	Operation
07:00	09:00	2.00	CASING	RNCS	SURFAC	RUN 37 JOINTS 8.625" 24# J-55 ST&C CASING ***TOP TO BOTTOM SUMMARY*** 36- JTS 8.625" CASING 1- FLOAT COLLAR 1- JT 8.625" CASING (SHOE JOINT) 1- GUIDE SHOE CASING SET@ 1596'
09:00	09:30	0.50	CASING	SFTY	SURFAC	PJSM- RD CASING CREW
09:30	10:00	0.50	CEMENT	SFTY	SURFAC	PJSM- RU CEMENT CREW
10:00	12:15	2.25	CEMENT	DISP	SURFAC	CEMENT 8.625" CASING AS FOLLOWS: 20 BBLs FRESH WATER AHEAD 620 SKS HALLIBURTON LITE C+ ADDITIVES 12.8 PPG- 1.85 YIELD- 9.92 GAL/SK 230 SKS C + 2% CaCl2 14.8 PPG- 1.35 YIELD- 6.35 GAL/SK 99 BBLs FRESH WATER DISPLACEMENT BUMPED PLUG W/ 1180 PSI CIRC 263 SKS CEMENT TO SURFACE
12:15	12:45	0.50	CEMENT	SFTY	SURFAC	PJSM- RD CEMENT CREW
12:45	16:15	3.50	CEMENT	WOC	SURFAC	WOC- JET PITS
16:15	16:30	0.25	TREBOP	SFTY	PROD1	PJSM- NU BOP
16:30	22:30	6.00	TREBOP	NUND	PROD1	NU BOP & MANIFOLD
22:30	23:00	0.50	TREBOP	SFTY	PROD1	PJSM- RU BOP TESTER
23:00	03:00	4.00	TREBOP	PRTS	PROD1	PRESSURE TEST BOP AS FOLLOWS: BLIND & PIPE RAMS LOW-250 PSI/ HIGH 3000 PSI ANNULAR LOW- 250 PSI/ HIGH 2200 PSI ALL OK
03:00	04:30	1.50	TREBOP	RURD	PROD1	FINISH RU PRESSURE CONTROL EQUIP
04:30	05:00	0.50	DRILL	PULD	PROD1	PU BHA #2
05:00	06:00	1.00	DRILL	TRIP	PROD1	TIH W/ BHA & BIT #2

Report Number	6	Report Start Date	4/21/2007	Report End Date	4/22/2007
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Time Log

Start Time	End Time	Dur (hrs)	Op Code	OpSub-Code	Phase	Operation
06:00	08:00	2.00	DRILL	TRIP	PROD1	TIH W/BHA AND BIT#2
08:00	08:45	0.75	DRILL	CIRC	PROD1	CIRC. AND COND. HOLE DISP. FRESH WATER
08:45	09:30	0.75	DRILL	DHEQ	PROD1	CASING TEST @ 1000PSI FOR 30 MINS.
09:30	11:15	1.75	DRILL	DRLG	PROD1	DRL F/1602'-1612'
11:15	11:30	0.25	DRILL	FIT	PROD1	F.I.T. TEST-250PSI FOR 15MINS-ALL OK.
11:30	16:30	5.00	DRILL	DRLG	PROD1	DRL F/1612'-1848'
16:30	17:00	0.50	DRILL	SRVY	PROD1	WLS @ 1812'-.50 DEG
17:00	01:45	8.75	DRILL	DRLG	PROD1	DRL F/1848'-2330'
01:45	02:00	0.25	DRILL	SRVY	PROD1	WLS @ 2280'-.50 DEG
02:00	06:00	4.00	DRILL	DRLG	PROD1	DRL F/2330'-2556'

Report Number	7	Report Start Date	4/22/2007	Report End Date	4/23/2007
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Time Log

Start Time	End Time	Dur (hrs)	Op Code	OpSub-Code	Phase	Operation
06:00	13:30	7.50	DRILL	DRLG	PROD1	DRLG F/2556'-2802'
13:30	14:00	0.50	DRILL	SRVY	PROD1	WLS @ 2763'-1 DEG
14:00	22:15	8.25	DRILL	DRLG	PROD1	DRLG F/2802'-3081'



Timelog Summary Report

VACUUM GLORIETA EAST UNIT PH 4 2-021

Time Log

Start Time	End Time	Dur (hrs)	Op Code	OpSub-Code	Phase	Operation
22:15	22:45	0.50	DRILL	SFTY	PROD1	BOP DRILL
22:45	06:00	7.25	DRILL	DRLG	PROD1	DRLG F/3081'-3275'

Report Number	8	Report Start Date	4/23/2007	Report End Date	4/24/2007
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Time Log

Start Time	End Time	Dur (hrs)	Op Code	OpSub-Code	Phase	Operation
06:00	06:30	0.50	DRILL	SRVY	PROD1	WLS @ 3233'-.75 DEG.
06:30	01:30	19.00	DRILL	DRLG	PROD1	DRLG F/3275'-3751'
01:30	02:00	0.50	DRILL	SRVY	PROD1	WLS @ 3754'-1 DEG.
02:00	06:00	4.00	DRILL	DRLG	PROD1	DRLG F/3751'-3859'

Report Number	9	Report Start Date	4/24/2007	Report End Date	4/25/2007
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Time Log

Start Time	End Time	Dur (hrs)	Op Code	OpSub-Code	Phase	Operation
06:00	11:30	5.50	DRILL	DRLG	PROD1	DRLG F/3859'-4006'
11:30	12:00	0.50	DRILL	SRVY	PROD1	WLS @ 3965'-.75 DEG
12:00	06:00	18.00	DRILL	DRLG	PROD1	DRLG F/4006'-4439'

Report Number	10	Report Start Date	4/25/2007	Report End Date	4/26/2007
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Time Log

Start Time	End Time	Dur (hrs)	Op Code	OpSub-Code	Phase	Operation
06:00	08:30	2.50	DRILL	DRLG	PROD1	DRLG F/4439'-4511'
08:30	09:00	0.50	DRILL	SRVY	PROD1	WLS @ 4471'-0.50 DEG
09:00	20:15	11.25	DRILL	DRLG	PROD1	DRLG F/4511'-5019'
20:15	20:45	0.50	DRILL	SRVY	PROD1	WLS @ 4972'-0.75 DEG
20:45	06:00	9.25	DRILL	DRLG	PROD1	DRLG F/5019'-5364'

Report Number	11	Report Start Date	4/26/2007	Report End Date	4/27/2007
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Time Log

Start Time	End Time	Dur (hrs)	Op Code	OpSub-Code	Phase	Operation
06:00	09:30	3.50	DRILL	DRLG	PROD1	DRLG F/ 5350' TO 5492'
09:30	10:00	0.50	DRILL	SRVY	PROD1	SRVY/ 5450' = 1*
10:00	16:45	6.75	DRILL	DRLG	PROD1	DRLG/ 5492' TO 5744'
16:45	17:15	0.50	DRILL	SRVY	PROD1	SRVY @ 5701' = 1*
17:15	02:15	9.00	DRILL	DRLG	PROD1	DRLG F/ 5744' TO 6029'
02:15	02:45	0.50	DRILL	SRVY	PROD1	SRVY @ 5987' = 1.50*
02:45	06:00	3.25	DRILL	DRLG	PROD1	DRLG F / 6029' TO 6163'

Report Number	12	Report Start Date	4/27/2007	Report End Date	4/28/2007
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Time Log

Start Time	End Time	Dur (hrs)	Op Code	OpSub-Code	Phase	Operation
06:00	10:15	4.25	DRILL	DRLG	PROD1	DRLG F / 6163' TO 6345' TD
10:15	04:00	17.75	DRILL	CIRC	PROD1	CIRCULATE CONDITION HOLE LOST CIRCULATION MIX LCM STABILIZE WELL BORE
04:00	06:00	2.00	DRILL	TRIP	PROD1	TOOH FOR LOGS

Report Number	13	Report Start Date	4/28/2007	Report End Date	4/29/2007
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Time Log

Start Time	End Time	Dur (hrs)	Op Code	OpSub-Code	Phase	Operation
06:00	07:15	1.25	DRILL	TRIP	PROD1	TOH F/ LOGS
07:15	14:00	6.75	DRILL	TRIP	PROD1	WELL FLOWING / TIH.
14:00	20:15	6.25	DRILL	CIRC	PROD1	CIRC & COND.
20:15	05:15	9.00	DRILL	TRIP	PROD1	LDDP/ DCS
05:15	06:00	0.75	CASING	RURD	PROD1	PJSM/ WITH CASING CREW - RIG UP CASING CREW

Report Number	14	Report Start Date	4/29/2007	Report End Date	4/30/2007
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Time Log

Start Time	End Time	Dur (hrs)	Op Code	OpSub-Code	Phase	Operation
06:00	06:30	0.50	CASING	SFTY	PROD1	PJSM F/RUNNING CSG. RU EXPRESS CSG EQUIP.



Timelog Summary Report
VACUUM GLORIETA EAST UNIT PH 4 2-021

Time Log

Start Time	End Time	Dur (hrs)	Op Code	OpSub-Code	Phase	Operation
06:30	10:15	3.75	CASING	RNCS	PROD1	TOP TO BTM DETAILS 5.5" 15.50# J-55 LT&C 101 JTS CSG 1 DOUBLE MARKER JT [4260'-4305'] 38 CSG JTS 1 DOUBLE MARKER JT [5874'-5919'] 9 CSG JTS FLOAT COLLAR @ 6284' 1 SHOE JT FLOAT SHOE CSG SET @ 6329' W/48 CENTRALIZERS. RD EXPRESS CSG.
10:15	11:30	1.25	CEMENT	CIRC	PROD1	CIRC.
11:30	12:00	0.50	CEMENT	SFTY	PROD1	PJSM F/CMTG OPS.
12:00	14:30	2.50	CEMENT	CIRC	PROD1	CMT AS FOLLOWS: LEAD 1200 SX INTERFILL C MIXED @ 11.8 PPG W/2.52 FT3/SX YIELD & 14.62 GAL/SX WTR W/ 0.125 #/SX FLAKES & 0.2% HALAD 9 FOLLOWED W/500 SX 50:50 PREM POZ MIXED @ 14.2 PPG W/1.32 FT3/SX YIELD & 6.13 GAL/SX WTR W/5% SALT, 0.4% HALAD 9, 0.2% CFR-3 & 1% WELLLIFE FDP-C734 DISPLACED W/2% KCL. BUMP PLUG W/2600 PSI. REL PRESS. FLOAT HELD. CIRC 60 BBLS [133 SX] CMT TO SURFACE. RD HES
14:30	21:00	6.50	SURFEQ	NUND	PROD1	ND BOPE. PU BOP W/LIFT WINCHES. SET SLIPS-CUTOFF CSG. LD BOPE. INSTALL TBGHEAD. TEST 3000# FOR 15 MINS. OK. JET & CLEAN PITS. REL RIG ON 04-29-2007 @ 2100 HRS
21:00	06:00	9.00	RIGMNT	RURD	PROD1	R/D PREP. RIG TO MOVE F/ VGEU PH2-021 TO VGEU PH2-027.

**ConocoPhillips' General Plan for
Pit Construction & Closure in Southeast New Mexico
October 2005**

In accordance with Rule 19.15.2.50(B)(2), the following information describes the construction and closure of drilling pits on COPC Southeast New Mexico (SENM) locations. This will become COPC's standard procedure on all SENM locations. If pits are constructed or closed out of the norm, a separate permit application will be submitted.

Drill Pit Construction:

General:

- Depth to Ground Water, Wellhead Protection Area & Distance to Nearest Surface Water Body ranking criteria will be site specific and information will be provided on APD or Sundry form C-103.
 - In the case where groundwater is encountered during the construction of a drilling pit, the NMOCD will be contacted and COPC will either try to find an alternative well location or use a closed steel tank system.
- The pit size and design is specific to well depth and location conditions.
- Topsoil will be stockpiled in the construction zone for later use in restoration.
- Pits will not be located in natural drainages.
- Diversion ditches will be constructed and maintained so that runoff water from outside the location is not allowed to enter the pit.
- Under no circumstance will pits be cut and drained during the drilling operations.
- A well sign will be on location identifying ConocoPhillips as the operator.
- Waste material at construction sites shall be disposed of promptly at an appropriate waste disposal site. No trash shall be disposed of in the drilling pit.
- Immediately after cessation of drilling and completion pits shall have any visible or measurable layer of oil removed from the surface.
- Prior to any pit construction the OCD will be notified at least 48 hours in advance.

Reserve Pit

- Pits will be constructed so as not to leak, break or allow discharge of liquids or produced solids during the drilling operations.
- Pits will be lined with impervious material at least 12 mils thick, which meets long-term standards as referenced in the guidelines. Padding (hay or pad dirt) is used underneath the synthetic liner in rocky areas.
- The pit will have adequate capacity to maintain 2 feet of free board.
- The reserve pit will be fenced on three sides away from the pad during drilling and the fourth side fenced as soon as the rig moves out.

Blow Pit

- Pits will be constructed to allow gravity flow to discharge into lined drill pit.
- The lower half of the pit, which is toward the drain line to the fully lined reserve pit, will be lined.
- Design of pit has been changed to reduce potential for trapped fluid at tail end of pit
- Pit will be fenced on three sides away from the pad during drilling and the fourth side fenced as soon as the rig moves off.
- Corrective actions will be taken to ensure the pit does not contain fluid.
 - This includes pumping out trapped fluid or fluid in low spots.
 - Filling in low spots in the blow pit that are below the elevation of the drain pipe to the lined pit.
 - Removing any high spots in blow pit that could trap rain water.

Pit Monitoring and Maintenance

- COPC will perform an inspection of the location including pit compliance within 72 hours of rig moving off.
- COPC will review the OCD pit requirements and the requirements included in this document with all COPC and contract personnel responsible for construction and closure of pits.

Drill Pit Closure:

- Good faith effort is made to close pits within required timeframe on Federal wells (90 days) and State/Fee wells (6 months). If pits will remain open past due dates, an extension will be requested by sundry notice to allow pits to remain open.
- The BLM is notified 24 hours prior to fluid hauling on Federal wells.
- The NMOCD will be notified 48 hours prior to closing of any pit.
- Aeration of pit fluids will be confined within pit area.
- Wells which have not penetrated a salt section and where less than 9.5# brine was used during drilling will be encapsulated below-grade.
 - Encapsulation will be accomplished by mixing earthen materials with the pit contents to stiffen the pit contents, as necessary, folding the edges of the liner over the stiffened mud and cuttings and covering the encapsulated wastes and liner with a minimum of 3 feet of clean soil or like material that is capable of supporting native plant growth.
- Wells which have penetrated a salt section or 9.5# brine or greater was used during drilling may be capped and encapsulated insitu or deep trench buried and capped below-grade.
 - Capping and encapsulation insitu will be accomplished by mixing earthen materials with the pit contents, as necessary to stiffen the pit contents sufficiently to provide physical stability and support for the pit cover, folding the edges of the liner over the stiffened mud and cuttings; capping the pit with either a 1-foot thick clay cap compacted to ASTM standards, or a 20 mil minimum liner and covering the cap with a minimum of 3 feet of clean soil or like material that is capable of supporting native plant growth.
 - Deep trench burial and capping will be accomplished by digging a trench adjacent to the drilling pit; lining the trench with a 12 mil liner; mixing earthen materials with the pit contents, as necessary to stiffen the pit contents sufficiently to provide physical stability and support for the trench cap; capping the trench with either a 1-foot clay cap compacted to ASTM standards, or a 20 mil minimum liner and covering the cap with a minimum of 3 feet of clean soil or like material that is capable of supporting native plant growth.
 - When constructing the cap, the liner or clay cap will overlap the underlying pit or trench area by at least 3 feet in all directions.
- If the depth to groundwater is less than 50 feet or if the well is located less than 200 feet from a domestic fresh water well or spring or less than 1000 feet from any other fresh water well or if the distance to surface water body is less than 200 feet; the well is considered to be in sensitive area. (Keep in mind that these are not the only scenarios of sensitive area.)
 - A special encapsulation or solidification process prior to covering the pit contents will be accomplished by mixing the pit contents with cement or some other solidifying product at approximately a 3 to 1 ratio with samples taken and approved by the OCD prior to closure and then contents buried as described above.
 - OCD must give written approval on any special closure or encapsulation prior to any work being done.
- The reserve pit will then be backfilled, leveled and contoured so as to prevent run-off to surface water.
- The area will be reseeded with the appropriate seed mixture.
- The final grade of reserve pit (after reclamation) will be returned to natural contour of the land such that no pooling will occur.
- A closure report will be submitted on Form C-144 on all drilling pits.
- **Note: On Federal wells, a BLM inspector may witness pit closures and may mandate specific modifications to that which is mentioned above. If this happens, OCD will be contacted for concurrence and modifications will be noted in the closure report.**