30-025-District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division HOBBS OCD
1220 South St. Francis Dr.
Santa Fe, NM 87505 OCT 20 2014

Form C-101
Revised July 18, 2013

☐ AMENDED REPORT

RECEIVED

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

1. Operator Name and Address	2. OGRID Number
CHEVRON U.S.A. INC. 15 SMITH ROAD MIDLAND, TEXAS 79705	4323
	3. API Number 30-025-25099

4. Property Code	5. Property Name	6. Well No.
2683	H.T. MATTERN NCT-C	006

7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
H	18	21S	37E		1980	NORTH	510	EAST	LEA

8. Proposed Bottom Hole Location

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County

9. Pool Information

Pool Name	Pool Code
TUBB OIL & GAS	60240

Additional Well Information

11. Work Type	12. Well Type	13. Cable/Rotary	14. Lease Type	15. Ground Level Elevation
RECOMPLETE	OIL		PRIVATE	
16. Multiple	**17. Proposed Depth**	**18. Formation**	**19. Contractor**	**20. Spud Date**
NO	6790'	TUBB		

Depth to Ground water	Distance from nearest fresh water well	Distance to nearest surface water

☒ **We will be using a closed-loop system in lieu of lined pits**

21. Proposed Casing and Cement Program

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
			NO CHANGE			

Casing/Cement Program: Additional Comments

22. Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer

23. I hereby certify that the information given above is true and complete to the best of my knowledge and belief.
I further certify that I have complied with 19.15.14.9 (A) NMAC ☒ and/or 19.15.14.9 (B) NMAC ☒, if applicable.
Signature: Denise Pinkerton

Printed name: DENISE PINKERTON
Title: REGULATORY SPECIALIST
E-mail Address: leakejd@chevron.com
Date: 10/16/2014 Phone: 432-687-7375

OIL CONSERVATION DIVISION

Approved By:
Title: Petroleum Engineer
Approved Date: 10/21/14 Expiration Date: 10/21/16

E-PERMITTING - - New Well_____
Comp_____ P&A_____ TA_____
CSNG_____ Loc Chng_____ Pool PM
ReComp_____ Add New Well_____
Cancl Well_____ Create Pool_____

Conditions of Approval Att

OCT 23 2014

WELL NAME: Mattern C #6

API #: 30-025-25099 CHEVNO: EO3450

OPERATOR: Chevron ~~Midcontinent, L.P.~~

LOCATION: 1980' FNL & 510' FEL Sec.18 TwnShp: 21S Range: 37E

COMPLETION: 09/26/1975 Permit Well Type: Oil

The purpose of this project is to recomplete the well in the Tubb formations. This procedure is meant to be a guide only. It is up to the WSM, Workover Engineer and Production Engineer to make the decisions necessary to do safely what is best for the well. PLEASE REFER TO THE H2S SHEET AND TAKE ALL NECESSARY PRECAUTIONS TO MITIGATE THAT AND ANY OTHER RISKS.

Contacts:

Prasanna Chandran (PE) 432-687-7727, (432) 250-2400 (C)
Danny Hunt (OS) 575-394-1242, 817-526-2322 (C)
Bobby Hill (PTTL) 575-394-1245, 575-631-9108 (C)
Clarence Fite (ALCR) 575-394-4001, 575-390-9084 (C)
Kevin Jones(WE) 432-687-7388, 575-631-4407 (C)
Victor Bajomo (DS) 432-687-7953, 432-202-3767 (C)
Gabriel Garcia (LWSM) 575-390-7220 (C)
Darryl Ruthardt (LWSM) 575-390-8418 (C)
Dustin Anderson (Petroplex) 432-631-5183 (C)

Rod String Quantity (Top-Bottom Depth) Desc
1 @(12-34) 1.500 (1 1/2 in.) Spray Metal x 22-
84 @(34-2134) 0.875 (7/8 in.) D x 25 Rod-
182 @(2134-6684) 0.750 (3/4 in.) D x 25 Rod-
1 @(6684-6688) 0.875 (7/8 in.) D x 4 Rod Sub - Rod Guides-Molded (3 per rod)-
1 @(6688-6704) Rod Pump (Insert) (NON-SERIALIZED) - 20-125-R H BC -16-4 (I
1.25)-
Surface Casing (Top-Bottom Depth) Desc
@(12-1288) Wellbore Hole OD-11.0000-
@(12-1288) K-55 8.625 OD/ 24.00# Round Short 8.097 ID 7.972 Drift-
@(12-1288) Cement-
Tubing String Quantity (Top-Bottom Depth) Desc
203 @(12-6352) J-55 2.375 OD/ 4.70# T&C External Upset 1.995 ID 1.901
1 @(6352-6356) J-55 2.375 OD/ 4.70# T&C External Upset 1.995 ID 1.901
2 @(6356-6419) J-55 2.375 OD/ 4.70# T&C External Upset 1.995 ID 1.901
1 @(6419-6422) Tubing Anchor/Catcher 2.375-
7 @(6422-6638) J-55 2.375 OD/ 4.70# T&C External Upset 1.995 ID 1.901
2 @(6638-6703) J-55 2.375 OD/ 4.70# T&C External Upset 1.995 ID 1.901 Drif
- Internal Plastic Ctg-TK-99-
1 @(6703-6704) Seat Nipple - Heavy Duty (2.375) Cup Type-
1 @(6704-6709) Perforated Nipple-
1 @(6709-6735) Bull Plug Mud Anchor 2.375-
Production Casing (Top-Bottom Depth) Desc
@(6482-6710) Producing Interval 01 PR-
@(1288-6789) Wellbore Hole OD- 7.8750-
@(12-6789) K-55 5.500 OD/ 15.50# Round Short 4.950 ID 4.825 Drift-
@(1970-6789) Cement-
@(6482-6710) Perforations - Open-
@(6750-6750) Plug Back Total Depth-

Chevron

WELL NAME: Mattern C #6

API #: 30-025-25099 CHEVNO: EO3450

OPERATOR: Chevron Midcontinent, L.P.

LOCATION: 1980' FNL & 510' FEL Sec.18 TwnShp: 21S Range: 37E

COMPLETION: 09/26/1975 Permit Well Type: Oil

PRE-WORK:

1. Complete the rig move checklist.
2. Ensure location is in appropriate condition, anchors have been tested within the last 24 months, and power line distance has been verified to determine if a variance and RUMS are necessary.
3. When NU anything over and open wellhead (EPA, etc.) ensure the hole is covered to avoid dropping anything downhole.
4. Review H2S calculations in H2S tab included.
5. Any equipment installed at the wellbore, including wellhead (Inside Diameter), is to be visually inspected by the WSM to insure no foreign debris or other restrictions are present.
6. DO NOT! Flow back CO2 to non CO2 rated vessels.

PROCEDURE:

1. Verify that well does not have pressure or flow. If the well has pressure, note tubing and casing pressures on Wellview report. Bleed down well; if necessary, kill with brine fluid (10ppg).
2. MIRU pulling unit and surface equipment.
3. Bleed off casing pressure to tank, if casing flowing fluid pump known weight fluid down casing, shut in for 30 mins, Calculate KWM and pump to kill well. If applicable.
4. Remove stuffing box and lay down polish rod.
5. Unseat pump and POOH standing back rods inspecting for pitting and shoulder damage.
6. Kill tubing if needed.
7. Monitor well for 30 minutes to ensure it is dead. ND WH. (***If needed:*** Release TAC.)
8. NU **Chevron Class III configured 7-1/16" 5M** remotely-operated hydraulically-controlled BOP, **2-3/8"** pipe rams over blind rams. NU EPA pan.
    - Keep the charted test of the BOP supplied by the vendor for the entire job.
9. RU Floor and POOH w/1 Jnt. **2 3/8"** tubing, PU 5 ½" PKR rated for 15.5# casing, RIH w/ PKR +/- 25' and test BOPE to **250/1000** psi. Note testing pressures in Wellview. Release and LD packer.

    Caliper elevators and tubular EACH DAY prior to handling tubing/tools. Note in JSA when and what items are callipered within the task step that includes that work.

10. PU 1 (15') Jnts. 2 3/8" tubing and RIH to **6750'** to tag for fill ***(TAC 6422', Perfs 6482'-6710', EOT 6735' PBTD 6750')***, DO NOT PUSH TAC INTO PERFS.
11. POOH scanning 2-3/8" production tubing, Keep Yellow only (25% or less wall loss), lay down production BHA..

Strap production pipe out of hole to verify depths and note them in Wellview. Send Tubing scan report to KJCY@chevron.com.

12. MI & RU Archer Wireline. Set up an exclusion zone and establish radio silence when running perf guns. Install Lubricator and test to **500** psi against blind rams. Note test results in WellView.

13. PU & RIH w/Guage Ring to **6,400'** ensure casing is clean.

14. RIH and conduct GR/CCL/CBL from **6700' to Surf**. Run log with **500** psi on casing. If bond does not appear to be good across proposed completion interval **. E-mail log to Malcolm Rowland (MRowland@chevron.com), Abdul Sule (asule@chevron.com), and Warren Anderson (Warren.Anderson@chevron.com) for confirming new perfs.**

15. RIH with 5 ½" CBP and set @ **6370'**. PU and set down on CBP to ensure it set.

16. RIH w/Cement Bailer and dump 10' of cement on CBP @ **6,370'**

17. POOH, shut BOP and Test Casing and CBP to **500 psi.** ***Note Test in Wellview.***

17. RIH with 3 1/8" slick guns (0.42" EH & 30" penetration) and perforate the following intervals:

Perfs to be done at 3 JSPF at 90 degree phasing, using 19 gram premium charges
6,204' – 6,340'
Ensure all shots fired!!

18. POOH, RDMO Archer Wireline.

19. Move in, Rack & strap +/- 6100'of 2 7/8" 6.5# L80 tbg.

Caliper elevators and tubular EACH DAY prior to handling tubing/tools. Note in JSA when and what items are callipered within the task step that includes that work.

20. Change out pipe rams to 2 7/8". PU 5 ½" testing packer on one joint 2 7/8" tubing and set @ ~25'. Test BOP pipe rams to **250/1000 psi**. Note testing pressures on WellView report (Time log and safety/inspections). Release and LD packersMIRU Hydrotesters

21. PU and RIH w/ 5 1/2" 12' PPI pkr and 2 7/8", 6.5# 8RD L-80 work string, hydrotesting to **8000** psi. RIH to first setting as per below.

22. Test treating lines to **7500** psi and set pop-off at **7500** psi. Perform the following PPI job with 20% HCl per Petroplex procedure.

Chevron

WELL NAME: Mattern C #6

API #: 30-025-25099 CHEVNO: EO3450

OPERATOR: Chevron Midcontinent, L.P.

LOCATION: 1980' FNL & 510' FEL Sec.18 TwnShp: 21S Range: 37E

COMPLETION: 09/26/1975 Permit Well Type: Oil

PPI Schedule						
Stage	Top Perf	Bottom Perf	Top PKR	Bottm PKR	Perf Ft.	Gallons
1	6332	6340	6331	6343	8	600
2	6310	6320	6309	6321	10	750
3	6272	6282	6271	6283	10	750
4	6240	6250	6239	6251	10	750
5	6228	6236	6226	6238	8	600
6	6216	6222	6214	6226	6	450
7	6204	6212	6202	6214	8	600

23. POOH w/PPI pkr, and lay down.

24. PU and RIH w/ 5 1/2" pkr on 2 7/8", 6.5# 8RD L-80 work string, set PKR @ 6175' and swab load back from acid job.

25. POOH LD WS and BHA

26. PU Production BHA and RIH hydrotesting production tubing to **5000 psi**. ***(Space out per ALCR Recommendations)***

27. NDBOPE, NUWH.

28. RIH w/Pump and Rods ***(Per ALCR Rod design)***

    Contact appropriate Field Specialist to remove locks.

29. Check pump action with pumping unit.

30. Clean location, RDMO, Notify ALCR and production, Complete Wellwork Ownership Form, Turn well back to Production. (contacts on first page). ***Send Wellwork Ownership Form to KJCY@Chevron.com***

Chevron	WELL NAME: Mattern C #6 API #: 30-025-25099 CHEVNO: EO3450 OPERATOR: Chevron Midcontinent, L.P. LOCATION: 1980' FNL & 510' FEL Sec.18 TwnShp: 21S Range: 37E COMPLETION: 09/26/1975 Permit Well Type: Oil

STANDARD GUIDELINES

Maximum Anticipated H2S Exposures (RRC H9 / NM Rule 36)

All personnel on location must be made aware of each of the following values (values vary by field):

Maximum anticipated amount of H2S that an individual could be exposed to is 21,000 ppm at the maximum anticipated escape volume (of wellbore gas) of 1,202 MCF/D
100 ppm Radius of Exposure is 760 feet.
500 ppm Radius of Exposure is 347 feet.

Elevators

At every tubing size change, the elevators must be calipered and all lifting equipment must be visually inspected for the correct sizing, and rechecked daily. The elevators must also be checked for proper sizing by placing a pony sub in the elevators. Prior to picking up power swivel, caliper and visually inspect elevators and bail on swivel. Checks are to be documented in the JSA and elevator log.

ND/NU

Prior to N/D, N/U operations, if only one mechanical barrier to flow will be in place, visual monitoring of well condition by the WSM is necessary for 30 minutes or more to ensure that the well is static ***before*** removing or replacing well control equipment. For all deviations to 2B policy, check that MOC for exemption from 2B policy is in place and applicable. During ND/NU operations with only one barrier to flow in-place, constant visual monitoring of well condition ***during ND/NU*** by the WSM is necessary.

Installed Equipment

Any and all equipment installed at the surface on the wellbore is to be visually inspected (internally) by the WSM prior to N/U to the wellhead by the service provider to ensure no debris or other potential restrictions are present. During any NU ops over an open wellhead (BOP, EPA, etc.), ensure the hole is covered to avoid dropping anything downhole.

Hazard ID

Identify hazards with the crew as they come up during the job. Stop and review and discuss JSAs.

Scale and Paraffin Samples

When removing rods and/or tubing from a well, collect samples of any paraffin and/or scale.

When drilling, note, report and sample significant returns of scale or paraffin, or anything other significant returns. Assume that samples that come from different areas/environments in the well are different and require a different sample; e.g. top/bottom of well, inside outside of tubing. Always collect enough sets of samples for both Production and D&C Chemical Reps. Send any samples to Chemical Reps., both for

1) Production (many times Baker), as well as for
2) D&C (many times PetroPlex).

Discuss D&C's Chemical Rep's recommendations with Engineering, or simply implement as practical.

Trapped Pressure

Recognize whether the possibility of trapped pressure exists, check for possible obstructions by:

- Pumping through the fish/tubular – this is not guaranteed with an old fish as the possibility of a hole above the obstruction could yield inconclusive results
- Dummy run – make a dummy run through the fish/tubular with sandline, slickline, e-line or rods to verify no obstruction. If unable to verify that there is no obstruction above the connection to be broken, or if there is an obstruction:
- Hot Tap at the connection to check for pressure and bleed off
- Observe and watch for signs / indicators of pressure as connection is being broken. Use mud bucket (with seals removed) and clear all non-essential personnel from the floor.

Chevron	WELL NAME: Mattern C #6 API #: 30-025-25099 CHEVNO: EO3450 OPERATOR: Chevron Midcontinent, L.P. LOCATION: 1980' FNL & 510' FEL Sec.18 TwnShp: 21S Range: 37E COMPLETION: 09/26/1975 Permit Well Type: Oil

Wireline

For all wireline and slickline jobs (except in new, cemented, tested and unperforated casing) install wireline packoff and lubricator. Follow Standard Guideline for installing equipment over wellhead. Test to 250 on the low end, and test on the high end based on SITP or max. anticipated pressure. Establish exclusion zone around wellhead area. Observe and enforce radio silence as needed for explosives. All wireline tools are to be calipered and documented on a diagram prior to PU and RIH. This is critical information in the event of fishing operations.

Foam clean out hazard mitigation

1 Install flowback manifold with two chokes. All components on flowback manifold must be rated to at least 5,000 psi. If possible, flowback manifold components should be hydrotested before delivery.

2 Run dart type float in bit sub bored for a float. Install open top flowback tank downwind from rig.

3 NU stripper head with **NO Outlets** (Check stripper cap for thread type - course threads preferred). Stripper head to be stump tested to 1,000 psi before use for foam operations.

4 Clear floor of all personnel while breaking circulation and anytime they are not required.

5 Pump high quality foam at all times. Do not pump dry air at any time. Fluid injection rates will generally be above 12 gallons per minute

6 Whenever there is pressure on the stripper head, have a dedicated person continuously monitor pressure at choke manifold and have a dedicated person at accumulator ready to close annular BOP in case stripper leaks.

7 Do not allow pressure on stripper head to exceed 500 psi. If pressure cannot be controlled below 500 psi, stop pumping, close BOP and bleed off pressure.

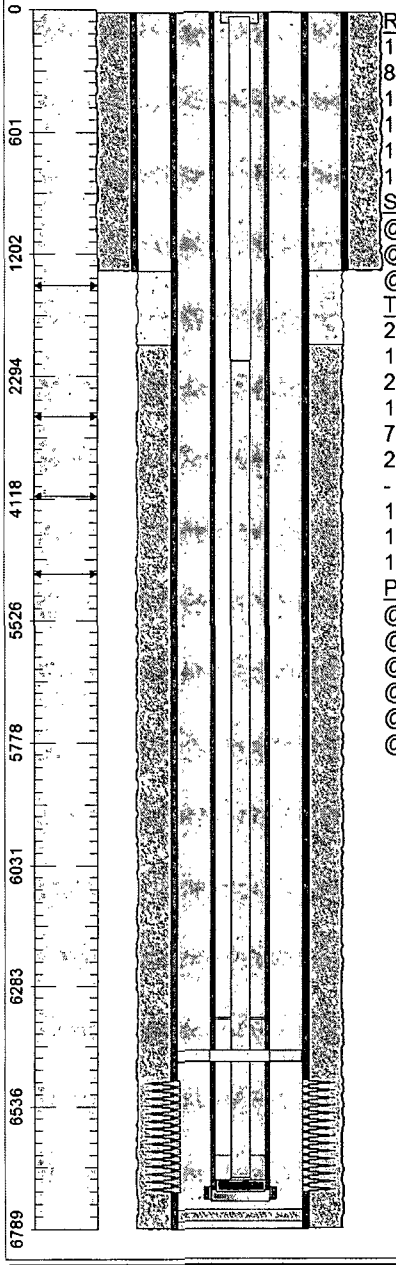
8 Ensure that high quality, stiff foam is pumped while circulating in lateral. Stiff foam is required to prevent segregation while circulating along lateral. Monitor flow and pressures carefully when cleaning out the lateral as well will begin to unload very rapidly when foam "turns the corner".

9 Before rigging up power swivel to rotate, carefully inspect Kelly hose to ensure that it is in good condition. Ensure that swivel packing is in good condition. Visually inspect and caliper elevators and bail on swivel.

10 POOH LD workstring & bit. Pump kill fluid down tubing to put tubing on vacuum to help eliminate trapped pressure before breaking out string floats. Have foam-air hand on location during this process. He should employ a special tool to check for pressure under floats.

Chevron U.S.A. Inc. Wellbore Diagram : MATC6

Lease: OEU EUNICE FMT	**Well No.:** MATTERN H T /NCT-C/ 6	**Field:** FLD-DRINKARD	
Location: 1980FNL510FEL	**Sec.:** N/A	**Blk:**	**Survey:** N/A
County: Lea **St.:** New Mexico	**Refno:** EO6345	**API:** 3002525099	**Cost Center:** UCU415300
Section: E037	**Township:** 18 S		**Range:** S021 E
Current Status: ACTIVE		**Dead Man Anchors Test Date:** 01/01/2012	
Directions:			



Rod String Quantity (Top-Bottom Depth) Desc
1 @(12-34) 1.500 (1 1/2 in.) Spray Metal x 22-
84 @(34-2134) 0.875 (7/8 in.) D x 25 Rod-
182 @(2134-6684) 0.750 (3/4 in.) D x 25 Rod-
1 @(6684-6688) 0.875 (7/8 in.) D x 4 Rod Sub - Rod Guides-Molded (3 per rod)-
1 @(6688-6704) Rod Pump (Insert) (NON-SERIALIZED) - 20-125-R H BC -16-4 (Bore = 1.25)-
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@(12-1288) Wellbore Hole OD-11.0000-
@(12-1288) K-55 8.625 OD/ 24.00# Round Short 8.097 ID 7.972 Drift-
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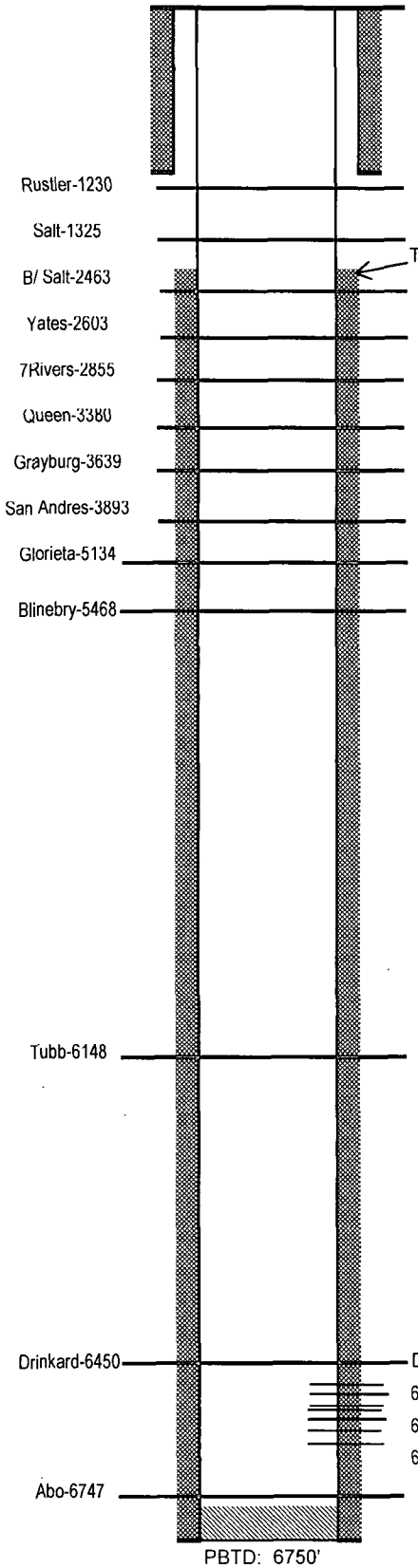
7 @(6422-6638) J-55 2.375 OD/ 4.70# T&C External Upset 1.995 ID 1.901
2 @(6638-6703) J-55 2.375 OD/ 4.70# T&C External Upset 1.995 ID 1.901 Drift - Internal Plastic Ctg-TK-99-
1 @(6703-6704) Seat Nipple - Heavy Duty (2.375) Cup Type-
1 @(6704-6709) Perforated Nipple-
1 @(6709-6735) Bull Plug Mud Anchor 2.375-
Production Casing (Top-Bottom Depth) Desc
@(6482-6710) Producing Interval 01 PR-
@(1288-6789) Wellbore Hole OD- 7.8750-
@(12-6789) K-55 5.500 OD/ 15.50# Round Short 4.950 ID 4.825 Drift-
@(1970-6789) Cement-
@(6482-6710) Perforations - Open-
@(6750-6750) Plug Back Total Depth-

Wellhead Size: 6"900

Ground Elevation (MSL): 3485.00	**Spud Date:** 08/24/1975	**Compl. Date:** 09/10/1975
Well Depth Datum: Kelly Bushing	**Elevation (MSL):** 3497.00	**Correction Factor:** 12.00
Last Updated by: fitecl	**Date:** 07/09/2012	

Lease Name:	H T MATTERN NCT-C	**Field:**	DRINKARD	**API No. :**	30-025-25099
Well No.	6	**Reservoir:**	DRINKARD	**REFNO:**	EO3450
Location:	1980' FNL & 510' FEL	**GE:**	3485'	**Spud Date:**	8/4/1975
UL / Sec.:	H/ 18 (SE/4 NE/4)	**KB:**	3497'	**Comp. Date:**	9/26/1975
TWNSHIP/RNGE	21S / 37E	**DFE:**	3396'	**County:**	LEA
COSTCENTER:	UCU415300	**Status:**	OISI	**State:**	NM



Hole Size:	11"
Csg. Size:	8 5/8" 24/3 K-55 ST&C
Set @:	1288'
Sks. Cmt.:	500 SKS C
TOC @:	SURFACE
Circ: Y/N:	Y CIRC 50 SKS

PROPOSED COMPLETION DIAGRAM

This wellbore diagram is based on the most recent information regarding wellbore configuration and equipment that could be found in the Midland Office well files and computer databases as of the update date below. Verify what is in the hole with the well file in the Eunice Field Office. Discuss w/WEO Engineer, WO Rep, OS, ALS, & FS prior to rigging up on well regarding any hazards or unknown issues pertaining to the well.

Tubb	Top- ft.	Bottom - ft.	Thickness-ft.
	6204	6212	8
	6216	6222	6
	6228	6236	8
	6240	6250	10
	6272	6282	10
	6310	6320	10
	6332	6340	8
	Total		**60**

DRINKARD PERFS
6482-84, 6518-20, 6592-94,
6617-19, 6633-35 & 6656-58
6708-10'

Hole Size:	7 7/8"
Csg. Size:	5 1/2" 15.5# K-55 LT&C
Set @:	6789'
Sks. Cmt.:	680 SKS C & H
TOC @:	1970' BY TS
Circ: Y/N:	N

PBTD: 6750'
TD: 6790'

Updated: 1/11/2012 By: PCID