

Submit 1 Copy To Appropriate District Office
District I - (575) 393-6161
1625 N French Dr., Hobbs, NM 88240
District II - (575) 748-1283
811 S First St., Artesia, NM 88203
District III - (505) 334-6178
1000 Rio Brazos Rd., Aztec, NM 87410
District IV - (505) 476-3460
1220 S St Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources

Form C-103
Revised August 1, 2011

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

WELL API NO. 30-025-37837 ✓
5. Indicate Type of Lease STATE ☐ FEE ☒
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name W.T. MCCOMACK ✓
8. Well Number 24 ✓
9. OGRID Number 4323 ✓
10. Pool name or Wildcat PENROSE; SKELLY GRAYBURG ✓

SUNDRIES 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 ☒ Gas Well ☐ Other ☐

2. Name of Operator
CHEVRON U.S.A. INC.

3. Address of Operator
15 SMITH ROAD, MIDLAND, TEXAS 79705

4. Well Location

Unit Letter B : 330 feet from the NORTH line and 1410 feet from the EAST line

Section 32 Township 21-S Range 37-E NMPM County LEA

11. Elevation (Show whether DR, RKB, RT, GR, etc.)

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 ☐
DOWNHOLE COMMINGLE ☐

OTHER INTENT TO SONIC HAMMER, ACIDIZE, SCALE SQUEEZE

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 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

CHEVRON U.S.A. INC. INTENDS TO SONIC HAMMER, ACIDIZE, & SCALE SQUEEZE THE SUBJECT WELL.

PLEASE FIND ATTACHED, THE INTENDED PROCEDURE, WELLBORE DIAGRAMS, & C-144 INFORMATION.

Spud Date:

Rig Release Date:

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE

Denise Pinkerton

TITLE: REGULATORY SPECIALIST

DATE 06-07-2012

Type or print name DENISE PINKERTON

E-mail address: leakejd@chevron.com

PHONE: 432-687-7375

For State Use Only

APPROVED BY:

Staff member

TITLE

Staff member

DATE

6-11-2012

Conditions of Approval (if any):

JUN 11 2012

W.T. McComack #24
Penrose Skelly, Grayburg Reservoir
T21S, R37E, Sec.32
N 32° 26' 29.796", W -103° 10' 50.304" (NAD27)
Job: Sonic Hammer, Acidize & Scale Squeeze

6.6.2012

Procedure:

This procedure is meant to be followed. It is up to the WSM, Remedial Engineer and Production Engineer to make the decisions necessary to do SAFELY what is best for the well. In the extent that this procedure does not reflect actual operations, please contact RE, PE and Superintendent for MOC

1. Verify that well does not have pressure or flow. If well has pressure, note tubing and casing pressures on Wellview report. Bleed down well; if necessary, kill with cut brine fluid (8.6 ppg).
 - **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.**
2. MI & RU workover unit.
3. Unseat pump, POOH with rods and pump. Examine rods for wear/pitting/paraffin. Do not hot water unless necessary. ND wellhead, unset TAC, NU BOP. POOH and LD 1 jt, PU 5-1/2" packer and set ~ @ 25', test BOP pipe rams to 250 psi/1000 psi. Note testing pressures on Wellview report. Release and LD packer.

Note: Prior to ND WH, e-mail or call Remedial Engineer to summarize what it was done to mitigate the well control hazard.

4. PU tubing and tag for fill (TAC 3,592', Bottom Perfs 3,900', EOT 4,093', PBTD 4,200'). POOH while scanning 2-7/8" prod tubing. LD all non-yellow band joints. If fill is tagged:
 - A. Above 4,190' continue to step 5.
 - B. Below 4,190' continue to step 7.

Note: Strap pipe out of the hole to verify depths and note them on Wellview report.
Send scan log report to LGBI@chevron.com.

- **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.**
5. PU and RIH with 4-3/4" MT bit, 4 (3-1/2") drill collars on 2-7/8" 6.5# L-80 WS. RU power swivel and clean out to 4,200' (CIBP). POOH with 2-7/8" WS and bit. LD bit & BHA.
Note: If circulation is not expected, notify Remedial Engineer to discuss CO with bailer (continue to step 6) or foam/air unit (continue to supplemental procedure on back).
6. PU and RIH with 4-3/4" MT and Bulldog bailer on 2-7/8" 6.5# L-80 WS. Clean out to 4,200'. POOH with 2-7/8" WS and bit. LD bit & BHA.
 - **Expect trapped pressure inside tubing while breaking connections during bailing operations, discuss on JSA and mitigate hazard. Use mudbucket (remove bottom seals if applicable) while breaking connections.**
7. Contact sonic tool rep to be on site during job. PU and RIH with Sonic Hammer tool and work string to 3,902' or enough to cover the bottom perforations with a whole stand. Hydrotest tubing to 6,000 psi. Stand back tubing to top perforations. Install stripper head and stand pipe with sufficient treating line to move tools vertically ~ 65'. Rig up pressure gauges to allow monitoring of tubing and casing pressures.

8. MI & RU Petroplex. Titrate acids and verify concentration (HCl $\pm 1.5\%$) report results in daily work summary. Treat all intervals from 3,680' to 3,902' with 30 bbls of 8.6 ppg cut brine water per interval (refer to Table A). Pump down Sonic Hammer tool at 5 BPM while reciprocating tool across intervals. Do not exceed 5,000 psi tubing pressure. Leave annulus open in circulation mode while treating intervals with brine water.
9. Follow the brine water wash with 5,000 gals 15% NEFE HCl of total acid for all intervals. Spot 3 bbls of acid outside tubing, shut in casing, pump 1,250 gallons of acid @ 5 BPM over first treating interval from 3,680'-3,734', monitor casing pressure not exceeding 500 psi. Flush tubing with brine water after every acidized interval, make a connection and continue with remaining interval. Refer to Table A.

Table A: Perforation Intervals for acid.

Interval	Depth	Interval (Ft.)	Acid Volume (gal)
1	3680' - 3734'	54	1,250
2	3745' - 3804'	59	1,250
3	3804' - 3863'	59	1,250
4	3863' - 3902'	39	1,250
			5,000

10. Shut in well for 1 hr for the acid to spend. Monitor casing pressure to keep it below 500 psi. Bleed off excess pressure if necessary.

11. Scale squeeze will with a total of 150 bbls 8.6 ppg brine water and 4 drums (220 gallons) Baker SCW-358 Scale Inhibitor Chemical. Continue moving uphole with Sonic Hammer. Pump at max rate of 5 BPM per pump schedule. Ensure top of tubing is flushed with brine water before making a connection.

Table B: Scale Sqz Pump Schedule

Step		Interval (ft)	Max Rate (BPM)	Volume Brine (bbl)	Volume Scale Chem. (Gal)	Cum Volume (bbl)
1	Pump Chemical/brine while moving from	3902' - 3863'	5	13	55	14.3
2	Pump Brine while moving from	3902' - 3863'	5	12		26
3	Pump Chemical/brine while moving from	3902' - 3863'	5	13	55	41
4	Pump Brine while moving from	3902' - 3863'	5	8		49
5	Move pipe to next interval of	3863' - 3804'				49
6	Pump Brine while moving from	3863' - 3804'	5	4		53
7	Pump Chemical/brine while moving from	3863' - 3804'	5	13	55	67
8	Pump Brine while moving from	3863' - 3804'	5	8		75
9	Move pipe to next interval of	3804' - 3745'				75
10	Pump Brine while moving from	3804' - 3745'	5	4		79
11	Pump Chemical/brine while moving from	3804' - 3745'	5	13	55	93
12	Pump Brine while moving from	3804' - 3745'	5	8		101
13	Move pipe to next interval of	3734' - 3680'				101
14	Pump Brine while moving from	3734' - 3680'	5	54		155

12. Ensure Sonic Hammer is above all perforations. Do not exceed 500 psi casing pressure or 5 BPM while pumping scale squeeze or casing flush. RD and release pump truck.
13. Run back in the hole and tag for fill. If fill entry was identified @ 4,190' or above, clean-out to 4,200' following steps 5 or 6.
14. POOH & LD 2-7/8" WS and Sonic Hammer tool.
15. RIH with 2-7/8" production tubing hydrotesting to 6,000 psi. Set TAC per ALCR recommendation. ND BOP. NU WH. RIH with rods and pump per ALCR. Hang well on. RD and release workover unit.

Note: Prior to ND BOP, e-mail or call Remedial Engineer to summarize what it was done to mitigate the well control hazard.

16. Turn well over to production.

FOAM / AIR CLEANOUT PROCEDURE

- This procedure is an addition to the original procedure.
 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. Hardline pipes from 2" casing valve to manifold to half pit with gas buster.
 2. Install flowback tank downwind from rig.
 3. Position Air unit upwind from Rig next to water tanks. Have vacuum truck on standby to empty halfpit. (if needed)
 4. RIH with 4-3/4" MT bit, 4 (3-1/2") drill collars on 2-7/8" 6.5# L-80 WS.
 5. 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 being delivered to rig.** Check chart or test at rig.
 6. RU foam air unit. Make quality foam on surface before going down hole with foam/air. Install flapper float at surface before beginning to pump. Break circulation with foam/air. Evacuate fluid from well.

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

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. 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.

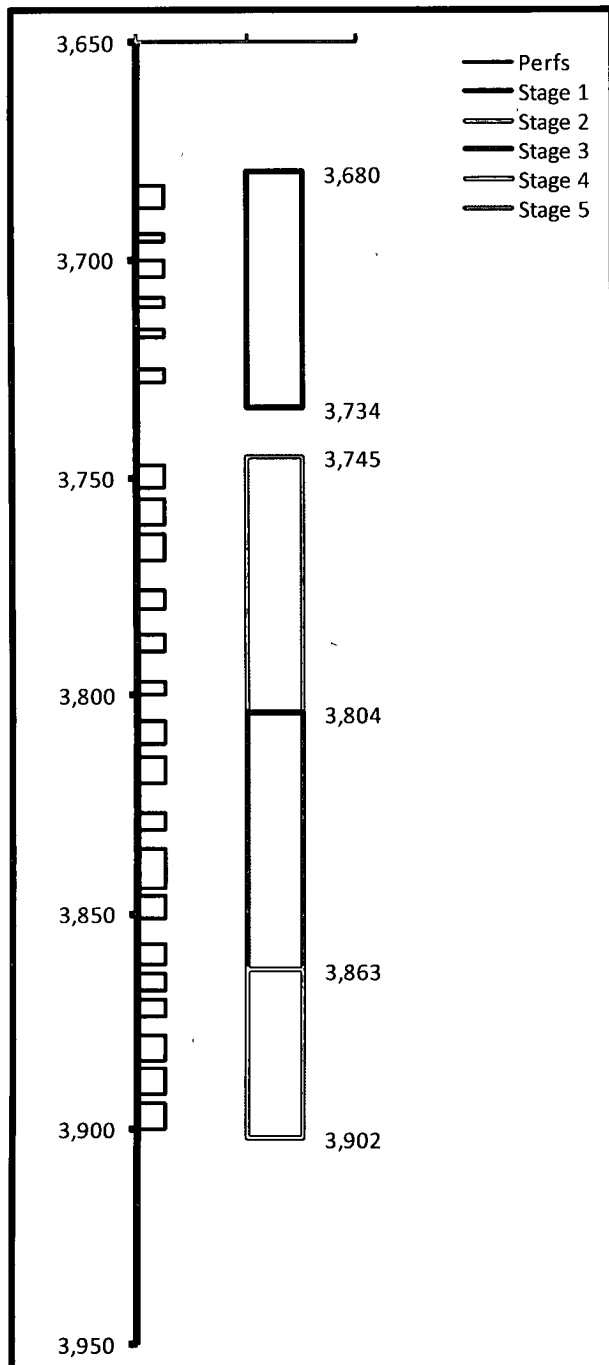
7. Clean out fill to 4,200' with low RPM's rotation and circulation, always keep pipe moving. Short trips can be beneficial to hole cleaning. Circulate well clean for at least 1 hour at the end of the day and pull up above the perforations before shut down for night. If the foam/air unit goes down, pull above the perforations.
8. When tripping out of hole, have special float bleed off tool available to relieve trapped pressure below float.

Ensure that high quality, stiff foam is pumped while circulating the fill. Stiff foam is required to prevent segregation while circulating. Monitor flow and pressures carefully when cleaning out.

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.

Continue on with original procedure for completion.

W. T. McComack # 24



		Perfs Detail		
Top	Bottom	Interval	Length	Status
ft	ft	ft		Reservoir
3,683	3,688	5	Open	Grayburg
3,694	3,696	2	Open	Grayburg
3,700	3,704	4	Open	Grayburg
3,709	3,711	2	Open	Grayburg
3,716	3,718	2	Open	Grayburg
3,725	3,728	3	Open	Grayburg
3,747	3,752	5	Open	Grayburg
3,755	3,761	6	Open	Grayburg
3,763	3,769	6	Open	Grayburg
3,776	3,780	4	Open	Grayburg
3,786	3,790	4	Open	Grayburg
3,797	3,800	3	Open	Grayburg
3,806	3,811	5	Open	Grayburg
3,814	3,820	6	Open	Grayburg
3,827	3,831	4	Open	Grayburg
3,835	3,844	9	Open	Grayburg
3,846	3,851	5	Open	Grayburg
3,857	3,862	5	Open	Grayburg
3,864	3,868	4	Open	Grayburg
3,870	3,874	4	Open	Grayburg
3,878	3,884	6	Open	Grayburg
3,886	3,892	6	Open	Grayburg
3,894	3,900	6	Open	Grayburg
		0		
		0		
		0		
		0		
		0		
		0		
		0		
		0		
		0		
		0		
		0		
		0		
		0		
		0		
Total				
3,683	3,900	106		

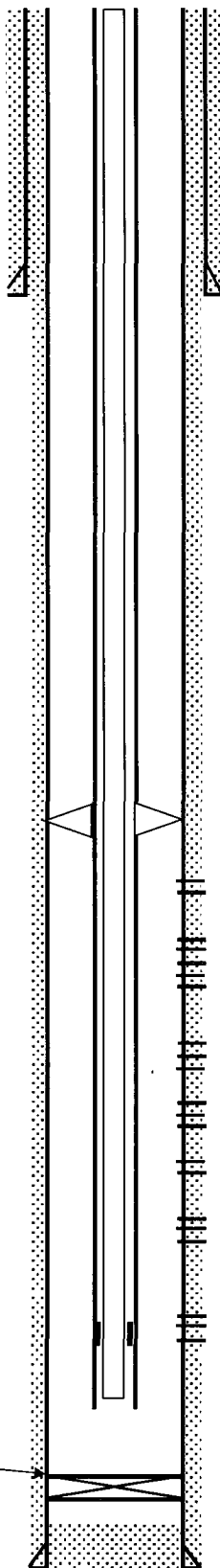
Well **W. T. McComack # 24**Field **Penrose Skelly**Reservoir **Grayburg****Location:**

330' FNL & 1410' FEL
 Section 32
 Township 21S
 Range 37E
 County: Lea State: NM

Elevations:

GL 3460'
 KB 3466'
 DF 3465'

CURRENT
Wellbore Diagram

**Well ID Info:**

Chevno JA3648
 API No 30-025-37837
 L5/L6 UCU491900
 Spud Date 5/14/2006
 Compl. Date 6/6/2006

Surf. Csg: 8 5/8", 24#, J-55**Set:** @ 444' w/ 475 sks**Hole Size:** 12 1/4"**Circ:** Yes **TOC:** Surface**TOC By:** Circulated

5/25/06 - FRAC w/88,000G of YF125,176,000#

16/30 Jordan Sand & 30,000# 16/30 Resin Coated CR 1630

PMP 2000 g 2% KCL w/55g Scale Chem, Baker RE 4777,

Stop pmping ISIP 1103 PSI, 5 M 1074 PSI, 15 Min 952 psi

6/1/2006 -CO Sand / Trace Oil / Good Gas Blows

RIH w/Tbg & Rods, TWOTP 6/6/2006

7/31/2008 - Rod Pump Failure

Tops in MD feet

QUEEN	COFT	3,428
PNRS	COFT	3,536
GRBG	COFT	3,706
SADR	COFT	4,002
GLTA	COFT	5,133
BLBR	COFT	5,478
TUBB	COFT	6,155
DRKD	COFT	6,453
ABO	COFT	6,736

3 1/8" Slick Guns, 4 spf, 120 phasing

23 grams 520 Holes

Perfs: **Status:**

3683-88'	Grayburg - Open
3694-96'	Grayburg - Open
3700-04'	Grayburg - Open
3709-11'	Grayburg - Open
3716-18'	Grayburg - Open
3725-28'	Grayburg - Open
3747-52'	Grayburg - Open
3755-61'	Grayburg - Open
3763-69'	Grayburg - Open
3776-80'	Grayburg - Open
3786-90'	Grayburg - Open
3797-3800'	Grayburg - Open
3806-11'	Grayburg - Open
3814-20'	Grayburg - Open
3827-31'	Grayburg - Open
3835-44'	Grayburg - Open
3846-51'	Grayburg - Open
3857-62'	Grayburg - Open
3864-68'	Grayburg - Open
3870-74'	Grayburg - Open
3878-84'	Grayburg - Open
3886-92'	Grayburg - Open
3894-3900'	Grayburg - Open

Prod. Csg: 5 1/2", 15.50#, J-55**Set:** @ 4319' w/ 1050 sks**Hole Size:** 7 7/8"**Circ:** Yes **TOC:** Surface**TOC By:** Circulated**Tubing Detail:**

<u>#Its:</u>	<u>Size:</u>	<u>Footage:</u>
	KB Correction	6.00
113	Jts 2 7/8" EUE 8R J-55 Tbg	3582.91
1	TAC	2.74
14	Jts 2 7/8" EUE 8R J-55 Tbg	444.04
1	Jt 2 7/8" EUE 8R J-55 Blast Jt Tbg	31.30
1	SN	1.10
1	2 7/8" Tbg Sub	24.00
1	Bull Plug	0.50
129	Bottom Of String >>	4092.59

Rod Detail:

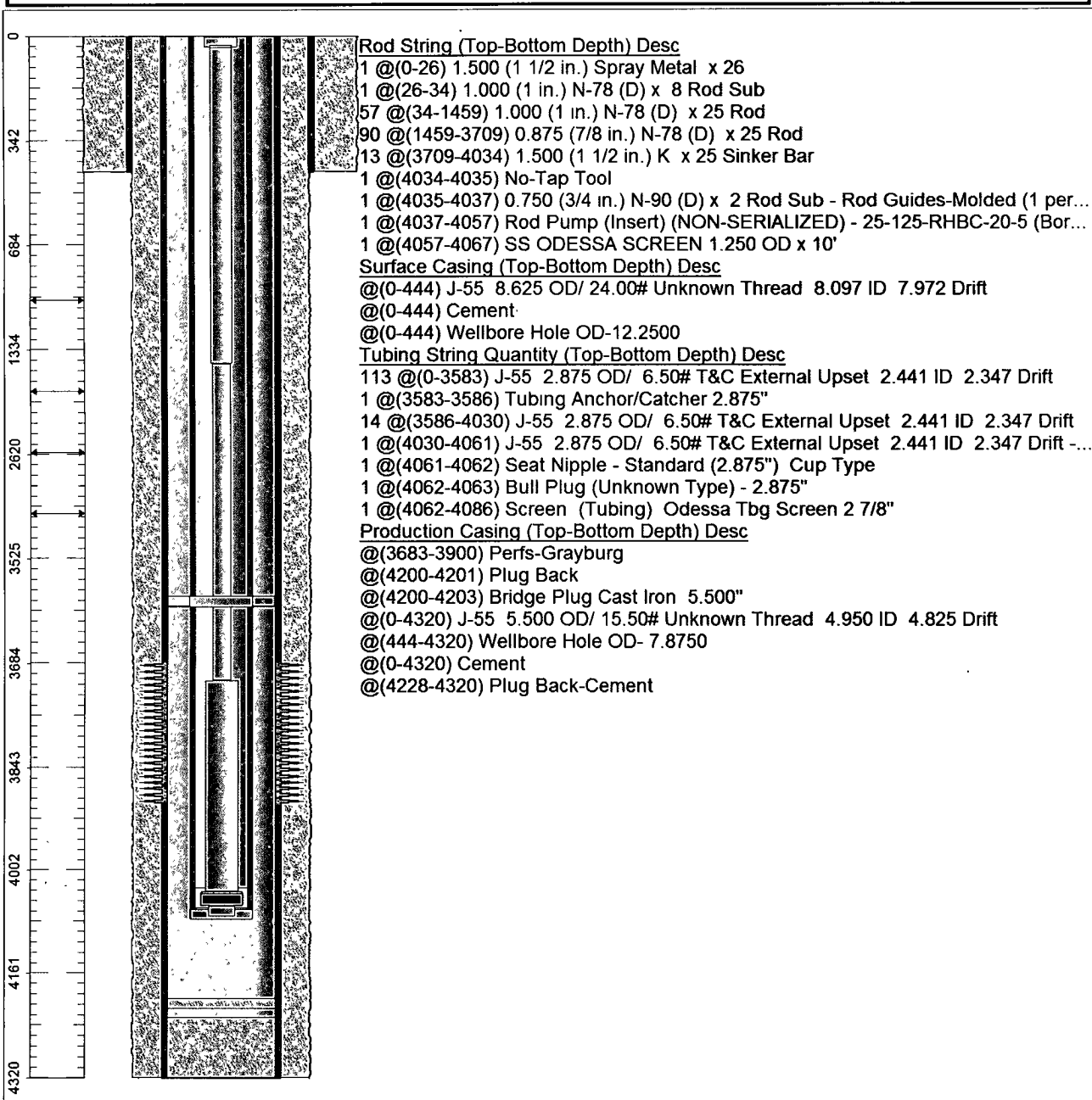
1	1 66" Polish Rod	26.00
1	1" N-78 D Rod Sub	8.00
57	1" N-78 D Rods	1425.00
90	7/8" Gr D Rods w/tee	2250.00
13	1 1/2" Sinker Bars	325.00
1	Rod Pump 25-125-RHBC-20-5	20.00
1	0 750 (3/4 in.) N-90 (D) x 2 Rod Sub - R	2.00
1	Rod Pump (Insert) (NON-SERIALIZED)	20.00
1	SS ODESSA SCREEN 1 250 OD x 10'	10.00
166	Bottom Of String >>	4086.00

CIBP @ 4200'
 (No cmt on top)

COTD: 4228'**PBTD:** 4228' (float collar)**ID:** 4320'**Updated:** 6/6/12**By:** Sam Sirgo

Chevron U.S.A. Inc. Wellbore Diagram : WTMCCOMACK 24G

Lease: OEU EUNICE FMT		Well No.: MCCOMACK W T 24	Field: FLD-PENROSE SKELLY	
Location: 330FNL1410FEL		Sec.: N/A	Blk:	Survey: N/A
County: Lea	St.: New Mexico	Refno: JA3648	API: 3002537837	Cost Center: UCU491900
Section:		Township: N/A		Range: N/A
Current Status: ACTIVE			Dead Man Anchors Test Date: NONE	
Directions:				



Ground Elevation (MSL):: 0.00	Spud Date: 05/14/2006	Compl. Date: 01/01/1970
Well Depth Datum:: CSI0000N	Elevation (MSL):: 0.00	Correction Factor: 0.00
Last Updated by: fttr	Date: 08/04/2008	