

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

Form C-103  
May 27, 2004

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

WELL API NO. 30-025-03006
5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
6. State Oil & Gas Lease No. B-2273
7. Lease Name or Unit Agreement Name Vacuum Abo Unit, Battery 3, Tract 8
8. Well Number 11
9. OGRID Number 217817
10. Pool name or Wildcat Vacuum (Abo Reef)

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 <input type="checkbox"/>	
2. Name of Operator ConocoPhillips Company ATTN: Celeste Dale	
3. Address of Operator 3300 N. "A" Street, Bldg. 6 #247, Midland, TX 79705-5406	
4. Well Location Unit Letter <u>C</u> : <u>990</u> feet from the <u>South</u> line and <u>2,310</u> feet from the <u>West</u> line Section <u>34</u> Township <u>17-S</u> Range <u>35-E</u> NMPM Lea County	
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3,928' GL; 3,942' RKB	
Pit or Below-grade Tank Application <input checked="" type="checkbox"/> or Closure <input type="checkbox"/>	
Pit type <u>STEEL</u> Depth to Groundwater _____ Distance from nearest fresh water well _____ Distance from nearest surface water <u>N/A</u>	
Pit Liner Thickness: <u>STEEL</u> mil Below-Grade Tank: Volume <u>180</u> bbls; Construction Material <u>STEEL</u>	

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.

SEE ATTACHED PROPOSED PLUGGING PROCEDURE, CURRENT & PROPOSED PLUGGED WELLBORE DIAGRAMS.

Approval Of This Notice Of Intent Is Void  
Without Approved Form C-144

RECEIVED

AUG 19 2008

HOBBS OCD

The Oil Conservation Division **Must be notified**  
**24 hours prior** to the beginning of plugging operations

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 [Signature] TITLE Area Manager, P&A Operations (Basic Energy Services) DATE 08/18/08

Type or print name: James F. Newman P.E. E-mail address: James.Newman@BasicEnergyServices.com Telephone No. 432-687-1994  
**For State Use Only**

APPROVED BY: [Signature] TITLE OC FIELD REPRESENTATIVE II/STAFF MANAGER DATE AUG 21 2008  
Conditions of Approval (if any):

**WELLBORE SKETCH**  
**ConocoPhillips Company -- Lower 48 - Mid-Continent BU / Permian Operations**

Date: August 11, 2008

RKB @ 3942'  
 DF @ 3940'  
 GL @ 3928'

Subarea : Buckeye  
 Lease & Well No : Vacuum Abo Unit , Battery 3, Tract 8, Well 11  
 Legal Description : 990' FSL & 2310' FWL, Sec. 34, T17S, R35E, Unit Letter "C"  
 County : Lea State : New Mexico  
 Field : Vacuum (Abo Reef)  
 Date Spudded : 3/18/62 Rig Released: 4/16/62  
 API Number : 30-025-03006  
 Status :  
 Drilled as Socony Mobil State "M" No. 11 State Lease No. B-2273

**Stimulation History:**

Interval	Date	Type	Gals	Lbs. Sand	Max Press	ISIP	Max Rate	Max Down
	4/23/62	<b>Perforate 5-1/2" Liner 1 jsf, select fire, 8384-8907'</b>						
8384-8907	4/23/62	15% NE	1,000	56 BS	3800	2800	1.3	
8384-8907	3/22/68	28% NE HCl	3,000		2300	200	3.8	
	12/19/74	<b>Re-perforate 8408-8908 (select fire)</b>						
8812-85605	12/20/74	15% NE HCl	3,500	83 BS	2700	200	3.5	
8604-8710	12/20/74	15% NE HCl	2,500	60 BS	3600	1900	2.2	
8408-8466	12/20/74	15% NE HCl	2,500	60 BS	1600	0	3.7	
8384-8907	4/1/81	15% NE HCl	1,500					

15" Hole  
**10-3/4" 32.75# H-40 @ 335'**  
 Cmt'd w/ 467 sx, circ  
 TOC @ Surface  
**TOC 7-5/8" Csg @ 460' (T.S.)**

**Top Salt @ 1771'**

**Base Salt @ 2720'**

**TOP 5-1/2" LINER @ 3416'**

9-7/8" Hole  
**7-5/8" 26.4# J-55 @ 3600'**  
 Cmt'd w/ 1220 sx  
 TOC @ 460' (T.S.)

**Abo - Perforated 4/23/62**

8384-86 8388-89 8395-97 8414-15 8437-39 8443-45  
 8448-50 8455-57 8462-64 8472-73 8477-78 8484-86  
 8501-03 8519-21 8545-47 8567-68 8580-81 8596-98  
 8605-06 8607-08 8612-14 8624-25 8627-28 8651-52  
 8663-64 8676-77 8690-91 8699-8701 8702-03 8707-08  
 8716-17 8726-27 8752-54 8813-14 8817-18 8828-30  
 8833-34 8837-38 8842-43 8847-48 8864-65 8876-77  
 8883-84 8902-03 8906-07

**Re-Perforated 12/19/74**

8408-16 8436-66 8604-14 8675-82 8690-8710  
 8812-20 8826-50 8864-86 8901-08

**Formation Tops:**

Anhydrite	1590'	San Andres	4416'
Top Salt	1771'	Clearfork	6064'
Base Salt	2720'	Drnkard	6172'
Yates	2899'	Abo Shale	8314'
Queen	3752'	Abo Reef	8352'

**Casing Detail Top to Bottom:**

17# N-80 LT&C 584.04'  
 15 5# J-55 ST&C 615.74'  
 17# N-80 LT&C 3831.09'  
 20# N-80 LT&C 653.81'

PBTD: 9064'  
 TD: 9100'

6-3/4" Hole  
**5-1/2" 17# N-80, 20# N-80 & 15.5 J-55 LINER @ 9100' to 3416'**  
 Cmt'd w/ 710 sx  
 TOC @ 3416'

**ConocoPhillips Company**  
**Vacuum Abo Unit, Battery 3, Tract 8, Well #11**  
**API #30-025-03006**  
**Vacuum (Abo Reef) Field**  
**Lea County, New Mexico**

## Proposed Plugging Procedure

See attached wellbore diagrams for wellbore configuration

**Casings:** 10 $\frac{3}{4}$ " 32.75# H-40 casing @ 335', cmt'd w/ 467 sx, circulated  
 7 $\frac{5}{8}$ " 26.4# casing @ 3,600' cmt'd w/ 1,220 sx, TOC 460' by T.S.  
 5 $\frac{1}{2}$ " 17# & 20# liner 3,416 - 9100' cmt'd w/ 710 sx, circulated to 3,416'

**Perforations:** 8,384 – 8,901' Abo

**Tubulars:** possible tubing/rods

- Contact NM DIGTESS (1-800-321-2537) minimum 48 hrs prior to move-in
- Notify NMOCD & BLM 48 hrs prior to move in, and 4 hrs prior to plugs
- Document daily tailgate safety meetings w/ crews
- Observe ConocoPhillips 10 – 2 – 4 work break program

2 $\frac{3}{8}$ " 4.7# EUE tubing casing capacity = 0.00387 bbls/ft  
 5 $\frac{1}{2}$ " 17# casing capacity = 0.0232 bbls/ft = 7.661 ft/ft<sup>3</sup>  
 7 $\frac{5}{8}$ " 26.4# casing capacity = 0.0471 bbls/ft = 3.775 ft/ft<sup>3</sup>  
 10 $\frac{3}{4}$ " 32.75# casing capacity = 0.1009 bbls/ft = 1.765 ft/ft<sup>3</sup>

1. Set steel pit, MIRU plugging equipment. Review Basic's SOP for well blow down, and flow down well as needed.

HAZARDS	EFFECT	SOLUTIONS
Rigging up Plugging Equipment	<i>Injury to Personnel</i>	<ul style="list-style-type: none"> <li>• Check for overhead obstructions</li> <li>• Observe Safety procedures while rigging up</li> <li>• JSA</li> </ul>
Lifting/Moving heavy equip.	<i>Injury to Personnel</i>	<ul style="list-style-type: none"> <li>• Inspect and use rated chains/slugs</li> <li>• Proper hook/shackle placement</li> </ul>
Static Electricity	<i>Injury to Personnel and Equipment</i>	<ul style="list-style-type: none"> <li>• Ground Rig to Well-Bore</li> </ul>
H <sub>2</sub> S	<i>Injury to Personnel</i>	<ul style="list-style-type: none"> <li>• Monitoring equipment</li> <li>• Safety Plan</li> <li>• Emergency Contacts</li> <li>• All on site H2S Trained</li> </ul>

2. POOH w/ rods & pump as present. ND wellhead and NU 6" 5,000# hydraulic BOP. POOH laying down production tubing if present.

3. If tubing & TAC was not pulled, RIH w/ gauge ring for 5½" 20# casing (drift I.D. = 4.653") on sandline to 8,334'. POOH w/ gauge ring. If gauge ring does not run to 8,334', pump 25 sx cmt balanced plug & TAG in place of CIBP in step #4.
4. RU wireline and lubricator, test lubricator to 1,500 psi. RIH w/ CIBP on wireline, set CIBP @ 8,334'. POOH w/ wireline, RD lubricator and wireline. **Abo Plug**

HAZARDS	EFFECTS	SOLUTIONS
Fall lanes	Injury to Personnel	Rig-up outside of Anchors, 50' from well-bore
Static Electricity	Pre-Detonation of Explosives, Injury to Personnel and Equipment	Ground Wireline to well-bore
Explosive Guns	Injury to Personnel and Equipment	<ul style="list-style-type: none"> <li>Ensure there is no power source while assembling</li> <li>wire detonator to wireline first - then to charge</li> </ul>

5. RIH w/ 2¾" workstring tubing, tag CIBP @ 8,334'. RU cementer and displace hole w/ 160 bbls plugging mud (casing capacity 275 bbls). Pump 25 sx C cmt 8,334 – 8,081' (1.32 ft³/sk yield, 33.0 ft³ slurry volume, calculated fill 253' in 5½" 17# casing), displacing w/ 31 bbls plugging mud. PUH laying down tubing to 6,100'. **Abo Plug**

HAZARDS	EFFECTS	SOLUTIONS
Running tubing	Injury to Personnel, Equipment & Well-Bore	<ul style="list-style-type: none"> <li>Proper pipe handling practices</li> <li>check Slips/Tongs/Elevators</li> </ul>
Mixing Plugging Mud	Health Hazard	<ul style="list-style-type: none"> <li>Proper PPE</li> <li>Respiratory Protection</li> </ul>
High pressure Pumping	Injury to Personnel and Environmental Issues	<ul style="list-style-type: none"> <li>Establish &amp; Use Safe Area</li> <li>Inspect all hoses/connections</li> </ul>

6. Load hole w/ plugging mud and pump 25 sx C cmt 6,100 - 5,847' (1.32 ft³/sk yield, 33.0 ft³ slurry volume, calculated fill 253' in 5½" 17# casing) displacing w/ 22.5 bbls plugging mud. PUH laying down tubing to 4,416'. **Drinkard/Clearfork plug**
7. Load hole w/ plugging mud and pump 25 sx C cmt 4,416 - 4,163' (1.32 ft³/sk yield, 33.0 ft³ slurry volume, calculated fill 253' in 5½" 17# casing) displacing w/ 16 bbls plugging mud. PUH laying down tubing to 3,600'. **San Andres plug**
8. Load hole w/ plugging mud and pump 50 sx C cmt w/ 2% CaCl₂ 3,600 - 3,258' (1.32 ft³/sk yield, 66.0 ft³ slurry volume, calculated fill 342' in 5½" x 7½" casings) displacing w/ 12.5 bbls plugging mud. PUH w/ tubing and WOC minimum 3 hours. RIH w/ tubing and tag cement no deeper than 3,316'. PUH laying down tubing to 2,820'. **Liner top & intermediate casing shoe plug**

HAZARDS	EFFECTS	SOLUTIONS
Mixing CaCl₂	Health Hazard Inhalation Chemical burn	<ul style="list-style-type: none"> <li>Refer to MSDS</li> <li>Proper PPE</li> </ul>
High pressure Pumping	Injury to Personnel, Equipment and Environmental Issues	<ul style="list-style-type: none"> <li>Establish &amp; Use Safe Area</li> <li>Inspect all hoses/connections</li> </ul>

9. Load hole w/ plugging mud and pump 30 sx C cmt 2,820 - 2,671' (1.32 ft<sup>3</sup>/sk yield, 39.6 ft<sup>3</sup> slurry volume, calculated fill 149' in 7<sup>5</sup>/<sub>8</sub>" 26.4# casing) displacing w/ 10 bbls plugging mud. PUH w/ tubing to 1,771'. **Base of Salt plug**

10. Load hole w/ plugging mud and pump 30 sx C cmt 1,771 - 1,622' w/ 2% CaCl<sub>2</sub> (1.32 ft<sup>3</sup>/sk yield, 39.6 ft<sup>3</sup> slurry volume, calculated fill 149' in 7<sup>5</sup>/<sub>8</sub>" 26.4# casing) displacing w/ 6 bbls plugging mud. PUH w/ tubing and WOC minimum 3 hours. RIH w/ tubing and tag cement no deeper than 1,671'. PUH standing back 180' tubing, and laying down remainder. **Base of Salt plug**

HAZARDS	EFFECTS	SOLUTIONS
Handling tubing	<i>Injury to Personnel</i>	<ul style="list-style-type: none"> <li>• Proper pipe handling practices</li> <li>• Check Slips/Tongs/Elevators</li> </ul>
Fall from Height	<i>Injury to Personnel</i>	<ul style="list-style-type: none"> <li>• 100% Tie-Off in derrick</li> <li>• Platforms w/Rails even consider if less than 4'</li> </ul>
High pressure Pumping	<i>Injury to Personnel and Environmental Issues</i>	<ul style="list-style-type: none"> <li>• Establish &amp; Use Safe Area</li> <li>• Inspect all hoses/connections</li> </ul>

11. RU & test lubricator to 1,500 psi. RIH w/ wireline & perforate 7<sup>5</sup>/<sub>8</sub>" casing @ 385'. POOH w/ wireline. RD lubricator.

HAZARDS	EFFECTS	SOLUTIONS
Fall lanes	<i>Injury to Personnel</i>	<i>Rig-up outside of Anchors, 50' from well-bore</i>
Static Electricity	<i>Pre-Detonation of Explosives, Injury to Personnel and Equipment</i>	<i>Ground Wireline to well-bore</i>
Explosive Guns	<i>Injury to Personnel and Equipment</i>	<ul style="list-style-type: none"> <li>• Ensure there is no power source while assembling</li> <li>• wire detonator to wireline first - then to charge</li> </ul>

12. RIH w/ AD-1 packer for 26.4# casing to 180'. Load hole w/ plugging mud, set packer, and establish rate into perforations at 1,000 psi or less. Squeeze 65 sx C cmt w/ 2% CaCl<sub>2</sub> 385 - 234' (1.32 ft<sup>3</sup>/sk yield, 85.8 ft<sup>3</sup> slurry volume, calculated fill 151' in 10<sup>3</sup>/<sub>4</sub>" casing) displacing w/ 3.25 bbls (tubing volume = 0.7 bbls). WOC & tag this plug no lower than 285'. POOH w/ packer laying down tubing. **Surface casing shoe plug**

HAZARDS	EFFECTS	SOLUTIONS
Mixing CaCl <sub>2</sub>	<i>Health Hazard</i> <i>Inhalation</i> <i>Chemical burn</i>	<ul style="list-style-type: none"> <li>• Refer to MSDS</li> <li>• Proper PPE</li> </ul>
High pressure Pumping	<i>Injury to Personnel, Equipment and Environmental Issues</i>	<ul style="list-style-type: none"> <li>• Establish &amp; Use Safe Area</li> <li>• Inspect all hoses/connections</li> </ul>

13. RU & test lubricator to 1,500 psi. RIH w/ wireline & perforate 7<sup>5</sup>/<sub>8</sub>" casing @ 60'. POOH w/ wireline. RD lubricator.

14. ND BOP and NU wellhead, establish circulation thru perforations at 60' and circulate 40 sx C cmt 6' to surface (1.32 ft<sup>3</sup>/sk yield, 39.6 ft<sup>3</sup> slurry volume, calculated fill 70' in 10<sup>3</sup>/<sub>4</sub>" casing). **surface plug**

15. RDMO location.

HAZARDS	EFFECTS	SOLUTIONS
Lowering Derrick	<i>Injury to Personnel &amp; Equipment Pinch points</i>	<ul style="list-style-type: none"> <li>• JSA</li> <li>• <u>Bleed air from raising cylinder</u></li> </ul>
Loose Equipment	<i>Injury to Personnel and Vehicles</i>	<ul style="list-style-type: none"> <li>• Secure all loose equipment</li> <li>• Vehicle Inspections prior to movement</li> </ul>

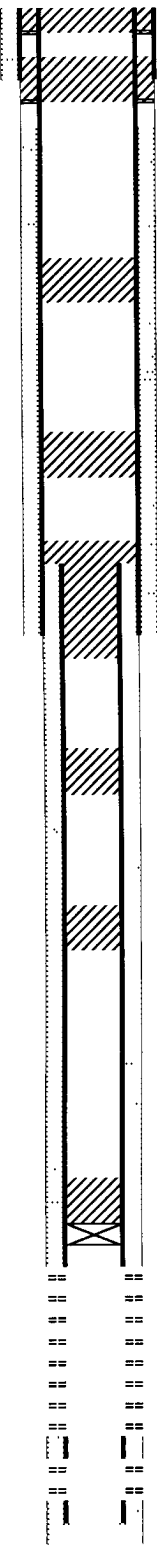
16. Cut off wellhead and anchors, install dry hole marker. Level location. Leave location clean and free of trash.

HAZARDS	EFFECTS	SOLUTIONS
Explosive Atmospheres	<i>Injury to personnel and Equipment Damage</i>	<ul style="list-style-type: none"> <li>• Digtest</li> <li>• Excavation &amp; Hot Work Permits</li> <li>• Monitor Atmosphere</li> </ul>
Cutting/Capping Wellhead	<i>Injury to Personnel</i>	<ul style="list-style-type: none"> <li>• Secure wellhead</li> <li>• on site helper watching area</li> </ul>
Grass/Brush Fires	<i>Injury to Personnel, Equipment &amp; Land</i>	<ul style="list-style-type: none"> <li>• Clear area w/backhoe</li> <li>• Fire watch</li> <li>• Emergency Contacts</li> </ul>

# **PROPOSED PLUGGED WELLBORE SKETCH** **ConocoPhillips Company -- Lower 48 - Mid-Continent BU / Permian Operations**

Date: August 11, 2008

RKB @ 3942'  
 DF @ 3940'  
 GL @ 3928'



**Perf @ 60' & circulate 40 sx**  
**C cmt 60' to surface**  
 10-3/4" 32.75# H-40 @ 335' w/ 467 sx, circ.

**Perf & sqz 65 sx C cmt 385 - 285' TAG**  
**TOC 7-5/8" Csg @ 460' (T.S.)**

Subarea : Buckeye  
 Lease & Well No Vacuum Abo Unit, Battery 3, Tract 8, Well 11  
 Legal Description : 990' FSL & 2310' FWL, Sec 34, T17S, R35E, Unit Letter "C"  
 County : Lea State New Mexico  
 Field : Vacuum (Abo Reef)  
 Date Spudded : 3/18/62 Rig Released: 4/16/62  
 API Number : 30-025-03006

Status: \_\_\_\_\_  
 Drilled as Socony Mobil State "M" No. 11 State Lease No. B-2273

## **Stimulation History:**

Interval	Date	Type	Gals	Lbs. Sand	Max Press	ISIP	Max Rate	Max Down
4/23/62 <b>Perforate 5-1/2" Liner 1 jsfp, select fire, 8384-8907'</b>								
Top Salt @ 1,771'	8384-8907	15% NE	1,000	56 BS	3800	2800	1 3	
<b>30 sx C cmt 1,771 - 1,622' TAG @ &gt;1,671'</b>	8384-8907	3/22/68 28% NE HCl	3,000		2300	200	3.8	
12/19/74 <b>Re-perforate 8408-8908 (select fire)</b>								
9-7/8" Hole	8812-85605	12/20/74 15% NE HCl	3,500	83 BS	2700	200	3 5	
	8604-8710	12/20/74 15% NE HCl	2,500	60 BS	3600	1900	2 2	
	8408-8466	12/20/74 15% NE HCl	2,500	60 BS	1600	0	3.7	
	8384-8907	4/1/81 15% NE HCl	1,500					

**Base Salt @ 2,720'**  
**30 sx C cmt 2,820 - 2,671'**

**TOP 5-1/2" LINER @ 3416'**

**7-5/8" 26.4# J-55 @ 3,600' w/ 1,220 sx**  
**TOC @ 460' (T.S.)**  
**50 sx C cmt 3,600 - 3,258' TAG @ >3,316'**

**25 sx C cmt 4,416 - 4,163'**

**25 sx C cmt 6,100 - 5,847'**

**25 sx C cmt 8,334 - 8,081'**  
**Set CIBP @ 8,334', circulate plugging mud**

**Abo - Perforated 4/23/62**  
 8384-86 8388-89 8395-97 8414-15 8437-39 8443-45  
 8448-50 8455-57 8462-64 8472-73 8477-78 8484-86  
 8501-03 8519-21 8545-47 8567-68 8580-81 8596-98  
 8605-06 8607-08 8612-14 8624-25 8627-28 8651-52  
 8663-64 8676-77 8690-91 8699-8701 8702-03 8707-08  
 8716-17 8726-27 8752-54 8813-14 8817-18 8828-30  
 8833-34 8837-38 8842-43 8847-48 8864-65 8876-77  
 8883-84 8902-03 8906-07  
**Re-Perforated 12/19/74**  
 8408-16 8436-66 8604-14 8675-82 8690-8710  
 8812-20 8826-50 8864-86 8901-08

6-3/4" Hole  
**5-1/2" 17# N-80, 20# N-80 & 15.5 J-55 LINER @ 9100' to 3416'**  
 Cmt'd w/ 710 sx, TOC @ 3,416' (top of liner)

PBTD: 9064'  
 TD: 9100'

## **Proposed Plugging Procedure**

- 1) Set CIBP @ 8,334', circulate plugging mud
- 2) 25 sx C cmt 8,334 - 8,081'
- 3) 25 sx C cmt 6,100 - 5,847'
- 4) 25 sx C cmt 4,416 - 4,163'
- 5) 50 sx C cmt 3,600 - 3,258' TAG @ >3,316'
- 6) 30 sx C cmt 2,820 - 2,671'
- 7) 30 sx C cmt 1,771 - 1,622' TAG @ >1,671'
- 8) Perf & sqz 65 sx C cmt 385 - 285' TAG
- 9) Perf @ 60' & circulate 40 sx C cmt 60' to surface

## **Capacities**

5 1/2" 17# csg.	7.661	ft/ft3	0.0232	bbls/ft
7" 26 4# csg	3.775	ft/ft3	0.0471	bbls/ft
10 3/4" 32.75# csg	1.765	ft/ft3	0.1009	bbls/ft
9 5/8" openhole.	1.880	ft/ft3	0.0947	bbls/ft
15" openhole	0.815	ft/ft3	0.2186	bbls/ft

## **Formation Tops:**

Anhydrite	1590'	San Andres	4416'
Top Salt	1771'	Clearfork	6064'
Base Salt	2720'	Drnkard	6172'
Yates	2899'	Abo Shale	8314'
Queen	3752'	Abo Reef	8352'

## **Casing Detail Top to Bottom:**

17# N-80 LT&C	584.04'
15.5# J-55 ST&C	615.74'
17# N-80 LT&C	3831.09'
20# N-80 LT&C	653.81'

Prepared by Jim Newman  
 Basic Energy Services  
 8/17/2008