

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 88210
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 July 18, 2013

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

WELL API NO.
30-025-06396

5. Indicate Type of Lease
STATE ☐ FEE ☒

6. State Oil & Gas Lease No.

7. Lease Name or Unit Agreement Name
West Blinebry Drinkard Unit (WBDU) / 37346

8. Well Number 138

9. OGRID Number
873

10. Pool name or Wildcat
Eunice; B-T-D, North (22900)

11. Elevation (Show whether DR, RKB, RT, GR, etc.)
3480' GL

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 ☐ Gas Well ☐ Other Injection Well

2. Name of Operator
Apache Corporation

3. Address of Operator
303 Veterans Airpark Lane, Suite 1000 Midland, TX 79705

4. Well Location
Unit Letter ☒ Lot P : 660 feet from the South line and 660 feet from the East line
Section 4 Township 21S Range 37E NMPM County Lea

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 ☐
CLOSED-LOOP SYSTEM ☐
OTHER: DEEPEN/RUN LINER ☒

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.

Apache intends to deepen this well, run a liner and conform to the Drinkard, per the attached procedure and WBD's.

Check Packer setting
depth in reference to
top perforation.
MSB

Condition of Approval: notify
OCD Hobbs office 24 hours
prior of running MIT Test & Chart

Spud Date: 10/12/1951

Rig Release Date: 11/11/1951

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

SIGNATURE Reesa Fisher TITLE Sr. Staff Reg Analyst DATE 1/11/2017

Type or print name Reesa Fisher E-mail address: Reesa.Fisher@apachecorp.com PHONE: (432) 818-1062

For State Use Only

APPROVED BY: Mary Brown TITLE AO/II DATE 1/24/2017

Conditions of Approval (if any):

WBDU 138W: Deepen Well, Run Liner, and Conform Injection into the Drinkard Formation (30-025-06396)

January 10, 2017

Day 0: Prior to start of workover: Schedule and install buried fiberglass injection line.

Day 1: MIRU. POOH and LD pump and rods. ND WH and NU BOPs. POOH and LD 2-3/8" production tubing.

Day 2: RIH w/ bit on 2-7/8" work string to top of CICR @ 6670'. Drill out CICR. RU Foam N2 Unit as required.

Day 3: Continue drilling out cement down to original TD of 6670'. Continue drilling and deepening wellbore down to new PBTD at 6815'.

Day 4: Drill out well to new TD at +/- 6815'. Circulate wellbore clean and POOH and LD 2-7/8" work string and bit.

Day 5: RU casing crew and equipment and RIH with 4-1/2" 11.6 lb/ft flush joint casing with float collar and float shoe to +/- 6813'.

RU cement crew, perform single stage cement job to surface consisting of 300 bbl fresh water flush, 80 bbl stop loss spacer, and 181 sacks of TXI Lite cement + additives (weight 12.5 ppg, yield 1.64 cf/sack, volume 52.9 bbl), and 71 sacks of TXI Lite cement + additives (weight 13.2 ppg, yield 1.39 cf/sack, volume 17.6 bbl). Total 150% excess slurry of 70.5 bbl. Displace with 105 bbls fresh water (confirm all volumes).

Day 6: WOC

Day 7: RIH w/ 3-1/4" bit on 2-3/8" work string. Drill out float collar and cement to +/- 6800'. Circulate clean. POOH

Day 8: MIRU WL and RIH w/ GR/CBL/CCL/CNL, log well from TD to surface, POOH

PU and RIH w/ 3-1/8" TAGs loaded with SDP charges and perforate the Drinkard @ 4 SPF, 90 deg phasing (estimated 70', 280 shots), POOH

PU and RIH w/ treating packer on 2-3/8" work string

Day 9: Cont. RIH w/ treating packer on 2-3/8" work string. Set packer @ +/-6560'

MIRU acid crew. Acidize the Drinkard w/10,000 gals 15% HCl and rock salt in 3 equal stages @ +/- 10 BPM. Release packer. Wash out salt. POOH

Day 10: PU and RIH with 4-1/2" injection packer with 2-3/8" IPC tubing subs, upper and lower profile nipples, and on/off tool on 2-3/8" work string. Set packer @ +/-6560'. Release on/off tool and pressure test casing to 500 psi. POOH and LD 2-3/8" work string

Day 11: PU & RIH w/2-3/8" IPC injection tubing and on/off tool. Circulate packer fluid and latch onto packer with on/off tool. ND BOPs and NU WH. Pressure test casing to 500 psi. RDMO.

Day 12: Perform MIT test for NM OCD. Perform bottom hole static pressure test. Place well on injection.

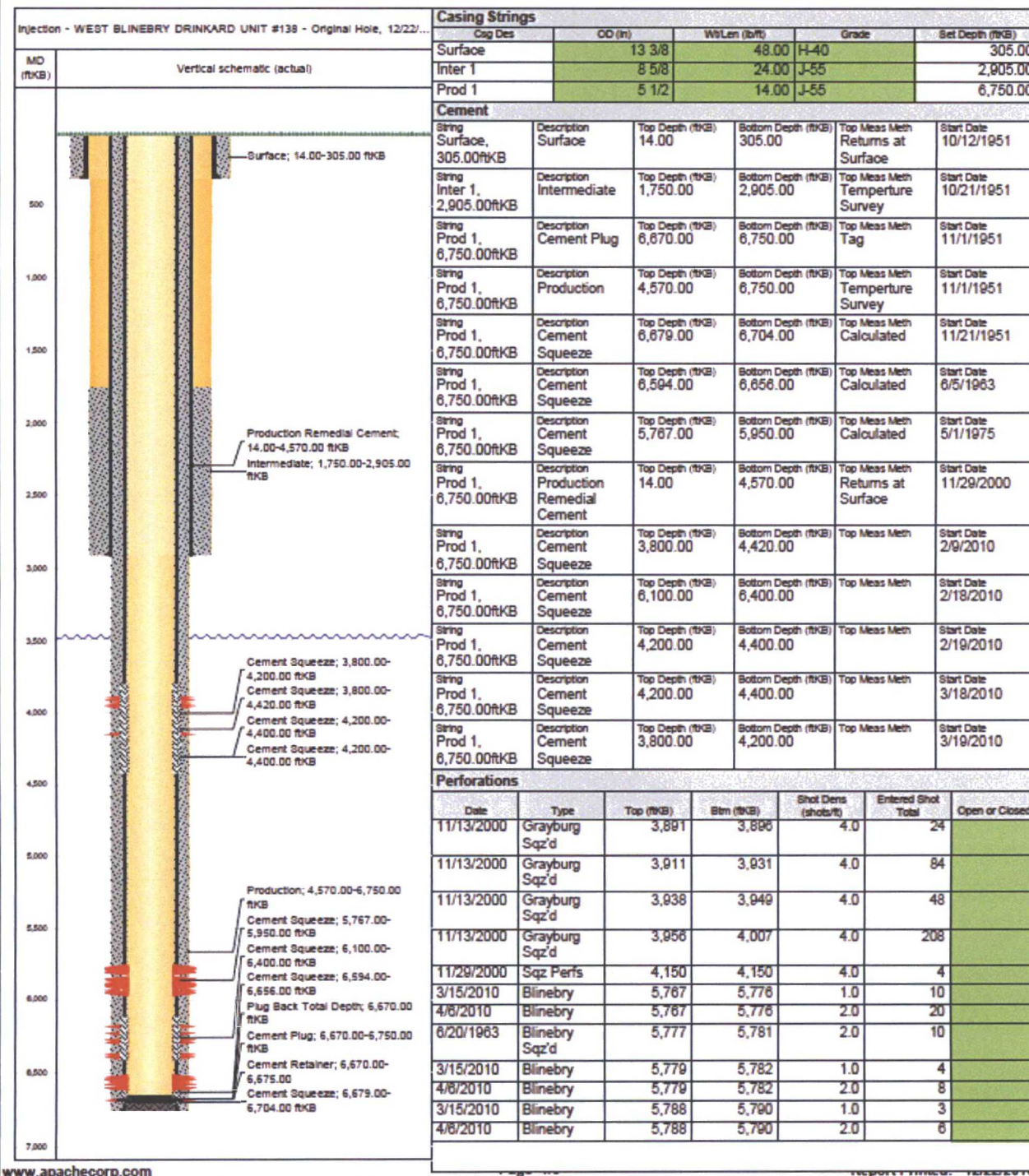


Downhole Well Profile w Cement

Well Name: WBDU 138W

Reference Datum: KB

API/UTM 3002506396	Surface Legal Location 660' FSL, 660' FEL, Unit X, Sec 4, T-21S, R-37E	Field Name Eunice Area	State/Province New Mexico	Well Purpose Injection
Spud Date 10/12/1951 00:00	Original Drilling Rig Release	Original KB Elevation (ft) 3,480.0	Ground Elevation (ft) 3,466.0	KB-Ground Distance (ft) 14.0
PSTD (Alt) (ftKB) Original Hole - 6,670			Total Depth Alt (TVD) (ftKB)	





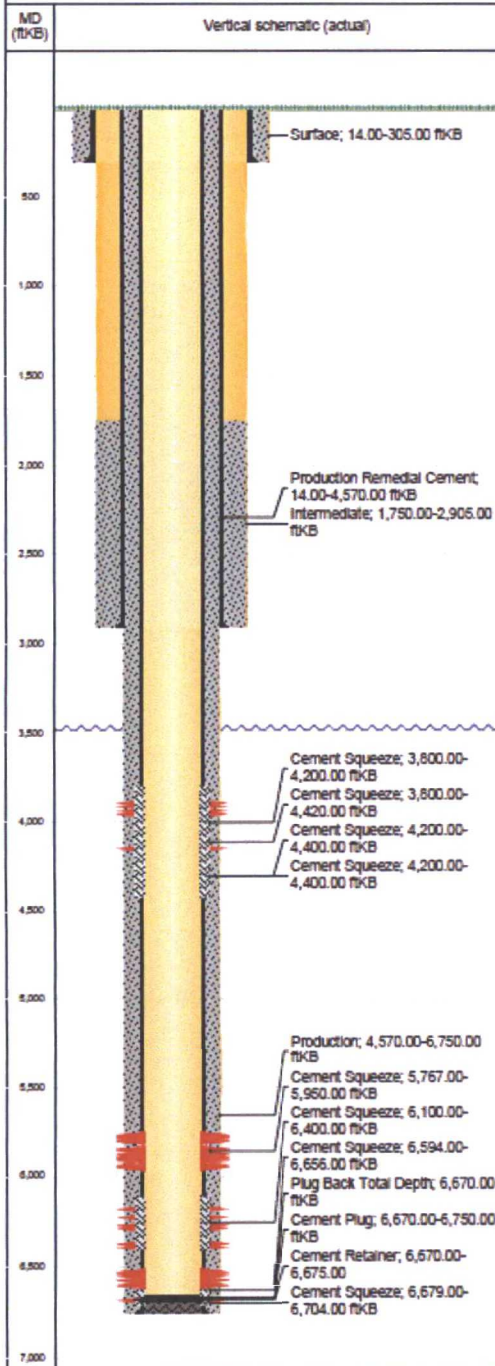
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API/UVI 3002506396	Surface Legal Location 660' FSL, 660' FEL, Unit X, Sec 4, T-21S, R-37E	Field Name Eunice Area	State/Province New Mexico	Well Purpose Injection
Spud Date 10/12/1951 00:00	Original Drilling Rig Release 3,480.0	Ground Elevation (ft) 3,486.0	KB-Ground Distance (ft) 14.0	Casing Flange Elevation (ft)
PBD (All) (ftKB) Original Hole - 6,670		Total Depth All (TVD) (ftKB)		

Injection - WEST BLINEBRY DRINKARD UNIT #138 - Original Hole, 12/22/...



Perforations						
Date	Type	Top (ftKB)	Blm (ftKB)	Shot Dens (shots/ft)	Entered Shot Total	Open or Closed
6/20/1963	Blinebry Sqz'd	5,790	5,792	2.0	6	
6/20/1963	Blinebry Sqz'd	5,802	5,806	2.0	10	
3/15/2010	Blinebry	5,804	5,806	1.0	3	
4/6/2010	Blinebry	5,804	5,806	2.0	6	
3/15/2010	Blinebry	5,849	5,854	1.0	6	
4/6/2010	Blinebry	5,849	5,854	2.0	12	
6/20/1963	Blinebry Sqz'd	5,850	5,854	2.0	10	
6/20/1963	Blinebry Sqz'd	5,862	5,865	2.0	8	
3/15/2010	Blinebry	5,878	5,881	1.0	4	
4/6/2010	Blinebry	5,878	5,881	2.0	8	
6/20/1963	Blinebry Sqz'd	5,882	5,885	2.0	8	
6/20/1963	Blinebry Sqz'd	5,893	5,897	2.0	10	
3/15/2010	Blinebry	5,894	5,896	1.0	3	
4/6/2010	Blinebry	5,894	5,896	2.0	6	
3/15/2010	Blinebry	5,900	5,902	1.0	3	
4/6/2010	Blinebry	5,900	5,902	2.0	6	
6/20/1963	Blinebry Sqz'd	5,924	5,927	2.0	8	
6/20/1963	Blinebry Sqz'd	5,942	5,948	2.0	14	
3/15/2010	Blinebry	5,942	4,945	1.0	4	
4/6/2010	Blinebry	5,942	5,945	2.0	8	
3/15/2010	Blinebry	5,947	5,953	1.0	7	
4/6/2010	Blinebry	5,947	5,953	2.0	14	
4/1/1954	Tubb Sqz'd	6,176	6,215	2.0	80	
4/1/1954	Tubb Sqz'd	6,224	6,236	2.0	28	
4/1/1954	Tubb Sqz'd	6,272	6,308	2.0	74	
9/1/1963	Tubb Sqz'd	6,272	6,282	2.0	22	
9/1/1963	Tubb Sqz'd	6,289	6,306	2.0	34	
4/1/1954	Tubb Sqz'd	6,365	6,392	2.0	56	
9/1/1963	Tubb Sqz'd	6,365	6,375	2.0	22	
9/1/1963	Tubb Sqz'd	6,382	6,392	2.0	22	
6/6/1963	Drinkard	6,519	6,534	2.0	32	
4/6/2010	Blinebry	6,519	6,534	2.0	32	
6/6/1963	Drinkard	6,544	6,552	2.0	18	
4/6/2010	Blinebry	6,544	6,552	2.0	18	
6/6/1963	Drinkard	6,568	6,570	2.0	6	
4/6/2010	Blinebry	6,568	6,570	2.0	6	
11/23/1951	Drinkard Sqz'd	6,595	6,655	4.0	244	
5/1/1975	Drinkard	6,595	6,640	2.0	92	
11/20/1951	Drinkard Sqz'd	6,680	6,703	4.0	96	

Tubing Strings			
Tubing Description	Run Date	String Length (ft)	Set Depth (ftKB)
Item Des	Jts	Make	Model
OD (in)	WT (lb/ft)	Grade	Len (ft)
Rod Strings			
Rod Description	Run Date	String Length (ft)	Set Depth (ftKB)



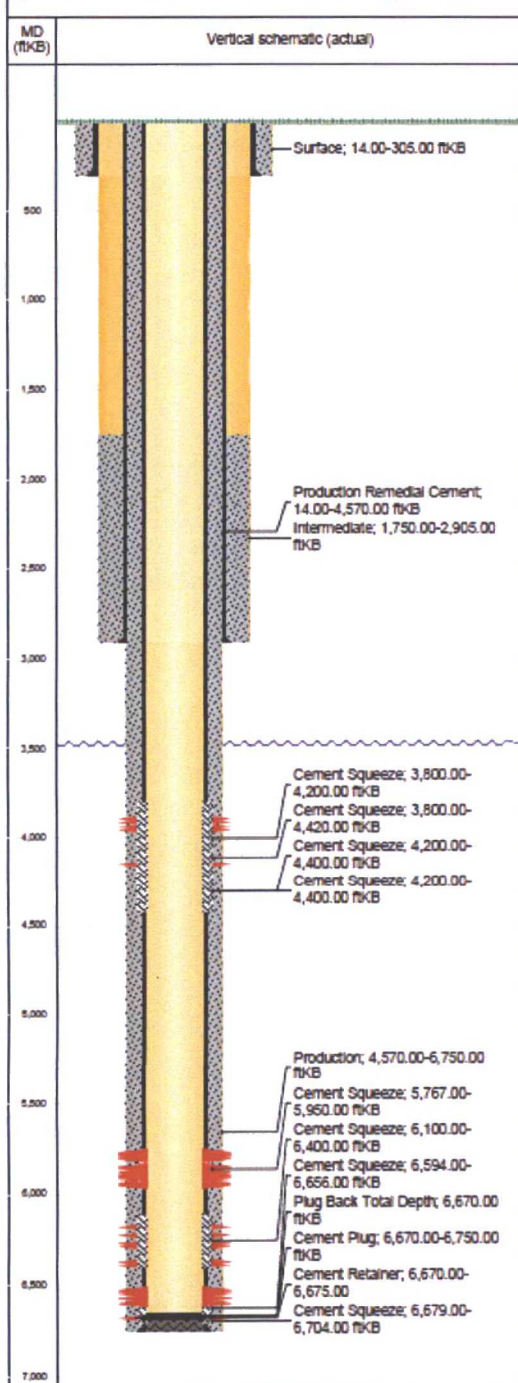
Downhole Well Profile w Cement

Well Name: WBDU 138W

Reference Datum: KB

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Spud Date 10/12/1951 00:00	Original Drilling Rig Release	Original KB Elevation (ft) 3,480.0	Ground Elevation (ft) 3,466.0	KB-Ground Distance (ft) 14.0
FBTD (ft) (ftKB) Original Hole - 6,670		Total Depth All (TVD) (ftKB)		

Injection - WEST BLINEBRY DRINKARD UNIT #138 - Original Hole, 12/22/...

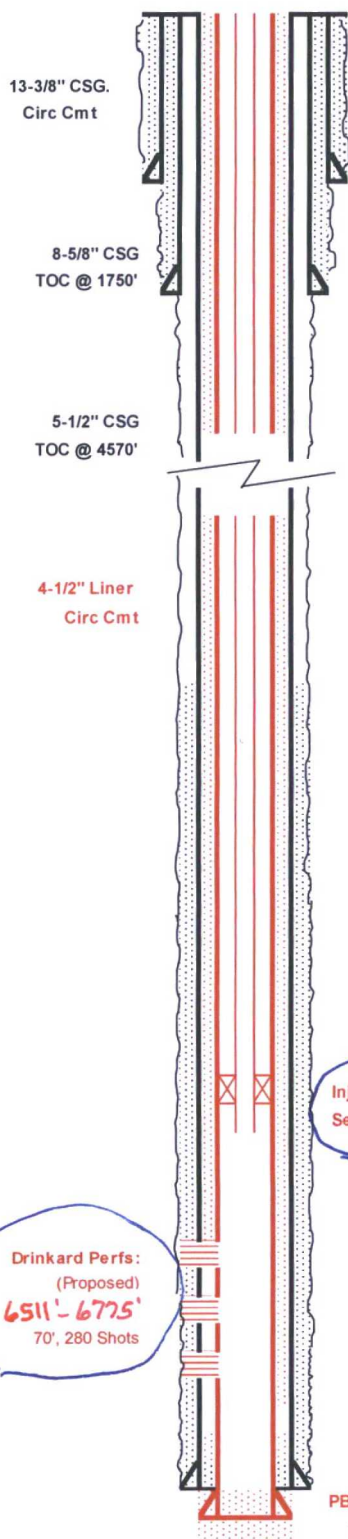


Item Des	Jts	Make	Model	OD (in)	WT (lb/ft)	Grade	Len (ft)
Other In Hole							
Description Cement Retainer				OD (in) 5 1/2	Top (ftKB) 6,670	Run Date 12/24/2015	
Plug Back Total Depths							
Date 11/23/1951		Type Packing Device		Depth (ftKB) 6,670		Depth (TVD) (ftKB)	
Comments							
Comment							

Apache Corporation
WBDU #138W (SRA #4)



WELL DIAGRAM (PROPOSED CONFIGURATION)



WELL NAME:	WBDU #138W (SRA #4)	API:	30-025-06396
LOCATION:	680' FSL, 660' FEL, Sec 4, T-21S, R-37E	COUNTY:	Lea Co., NM
SPUD/TD DATE:	10/12/1951-11/15/1951	COMP. DATE:	11/23/1951
PREPARED BY:	Kris Hasselbach	DATE:	1/10/2017
TD (ft):	6,866.0	KB Elev. (ft):	3480.0
PBTD (ft):	6,815.0	Ground Elev. (ft):	3466.0
KB to Ground (ft)	14.0		

CASING/TUBING	SIZE (IN)	WEIGHT (LB/FT)	GRADE	DEPTHS (FT)
Surface Casing	13-3/8" (Cmt. w / 300 sx., Circ.)	36.00		0.00 305.00
Intermediate Casing	8-5/8" (Cmt. w / 475sx) TOC @ 1750'	0.75		0.00 2,905.00
Production Casing	5-1/2" (Cmt. w / 225 sx) TOC @ 4570'	14/15.5	J-55	0.00 6,748.00
Liner	4-1/2" FJ TOC @ Surf	11.60	J-55	0.00 6,815.00
Injection Tubing	2-3/8" IPC	4.7	J-55	0 6562

INJECTION TBG STRING

ITEM	DESCRIPTION	LENGTH (FT)	Btm (FT)
1	2-3/8" 4.7 LB/FT J-55 IPC TBG	6,562.00	6562.00
2	2-3/8" ON/OFF TOOL W/ 1.78 F PROFILE	1.80	6563.80
3	2-3/8" X 4-1/2" NICKLE PLATED ARROW-SET PKR	6.20	6570.00
4	2-3/8" 4.7 LB/FT J-55 IPC TBG	8.00	6578.00
5	2-3/8" PROFILE NIPPLE 1.50 R	0.90	6578.90
6	2-3/8" 4.7 LB/FT J-55 IPC TBG	6.00	6,584.90
7			
8			
9			
10			

PERFORATIONS

Form.	Intervals	FT	SPF
Drinkard	(Estimated) 6612'-6740'	70	4

Injection Packer
Set @ 6560'

Drinkard Perfs:
(Proposed)
6511' - 6775'
70', 280 Shots

PBTD: 6,815.0
TD: 6,866.0

Per Underground Injection Control Program Manual
11.6 C Packer shall be set within or less than 100
feet of the uppermost injection perfs or open hole.