

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., 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 & Natural Resources

Form C-104
Revised August 1, 2011

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Submit one copy to appropriate District Office

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator name and Address Steward Energy II, LLC 2600 N Dallas Pkwy, Suite 400 Frisco, TX 75034,		² OGRID Number 3711682
		³ Reason for Filing Code/ Effective Date
⁴ API Number 30-025-43753	⁵ Pool Name Bronco; San Andres, South	⁶ Pool Code 07500
⁷ Property Code	⁸ Property Name Heisenberg State Com	⁹ Well Number #3H

II. ¹⁰ Surface Location

UL or lot no. J	Section 3	Township 14s	Range 38e	Lot Idn	Feet from the 2442	North/South Line South	Feet from the 1500	East/West line East	County Lea
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¹¹ Bottom Hole Location

UL or lot no. B	Section 34	Township 13S	Range 38E	Lot Idn	Feet from the 330	North/South line North	Feet from the 2000	East/West line East	County Lea
¹² Lse Code	¹³ Producing Method Code	¹⁴ Gas Connection Date	¹⁵ C-129 Permit Number on file	¹⁶ C-129 Effective Date 12/19/2017	¹⁷ C-129 Expiration Date 3/31/2018				

III. Oil and Gas Transporters

¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address	²⁰ O/G/W
371407	STAKEHOLDER MIDSTREAM CRUDE OIL PIPELINE, LLC- Special Note: OCD E-permitting has this recorded before actual sales. This is a follow-up to complete the well files.	O
246501	TARGA MIDSTREAM SERVICES LLC	G

IV. Well Completion Data

²¹ Spud Date 5-11-17	²² Ready Date 9-1-17	²³ TD 13,156'	²⁴ PBDT	²⁵ Perforations 6136.0' - 13,019.5'	²⁶ DHC, MC
²⁷ Hole Size	²⁸ Casing & Tubing Size	²⁹ Depth Set	³⁰ Sacks Cement		
12 - 1/4"	9-5/8"	2420'	850		
8-3/4"	5-1/2"	4877'	233		

V. Well Test Data

³¹ Date New Oil 9-1-17	³² Gas Delivery Date Flared	³³ Test 9-2
³⁷ Choke Size 64/64	³⁸ Oil 160	³⁹ W 1030
		83
		Averaged Production

⁴² I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief. Signature: <i>Wayne Price</i>		OIL CONSERVATION DIVISION Approved by: <i>Wayne Price</i>	
Printed name: Wayne Price-Price LLC		Title:	
Title: MGM- Consultant for SE II		Approval Date: <i>Bo</i>	
E-mail Address: wayneprice@q.com			
Date: March 15, 2018	Phone: 505-715-2809		

C102 BHL, FTP, acreage incorrect based on perf record
C103 Need completion sundry
C104 BHL incorrect; prop code omitted; need
24-hr test information
C105 BHL, formations incorrect ; consolidate to 2-pg report
Dir Survey not to TD : ALL FORMS SHOULD BE COMPLETE

Denied

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Energy, Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Revised April 3, 2017

1. WELL API NO.
30-025-43753
2. Type of Lease
XX STATE ☐ FEE ☐ FED/INDIAN
3. State Oil & Gas Lease No.
V092040002, V097360001, V091880002

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

4. Reason for filing:

XX COMPLETION REPORT (Fill in boxes #1 through #31 for State and Fee wells only)

☐ C-144 CLOSURE ATTACHMENT (Fill in boxes #1 through #9, #15 Date Rig Released and #32 and/or #33; attach this and the plat to the C-144 closure report in accordance with 19.15.17.13 K NMAC)

7. Type of Completion:

XX NEW WELL ☐ WORKOVER ☐ DEEPENING ☐ PLUGBACK ☐ DIFFERENT RESERVOIR ☐ OTHER

8. Name of Operator Steward Energy II, LLC

5. Lease Name or Unit Agreement Name

Heisenberg State Com

6. Well Number: #3H

10. Address of Operator 2600 N Dallas Pkwy, Suite 400 Frisco, TX 75034,

11. Pool name or Wildcat
Bronco; San Andres, South

12. Location	Unit Ltr	Section	Township	Range	Lot	Feet from the	N/S Line	Feet from the	E/W Line	County
Surface:	J	3	14S	38E		2442	South	1500	East	Lea
BH:	B	34	13S	38E		330	North	2000	East	Lea

13. Date Spudded 5-11-17	14. Date T.D. Reached 5-28-17	15. Date Rig Released 5-28-2017	16. Date Completed (Ready to Produce) Aug 17, 2017	17. Elevations (DF and RKB, RT, GR, etc.) 3800' GR
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18. Total Measured Depth of Well Curve: 4877' - 5757' Lat: 5757' - 13,156' TD Lateral @ 13,156' MD/ 5299' TVD	19. Plug Back Measured Depth 13,156'	20. Was Directional Survey Made? Yes	21. Type Electric and Other Logs Run Yes- will be submitted
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22. Producing Interval(s), of this completion - Top, Bottom, Name San Andres - Brahaney B

23. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT LB/FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
9 -5/8"	36#/ft J-55	2420"	12 -1/4"	Cement w/650sx "C" 35/65PozC(12.8 gps,1.94cfs/10.3 8gps) +200sx "C" Neat (14.8ppg/1.32cf s/6.30gps)	
5-1/2"	20#/ft-L-80 BTC	4877'	8-3/4"	Cement w/660sx 50/50 P/C () + 2330sx 50/50 P/ C ()	

24. LINER RECORD					25. TUBING RECORD		
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET

26. Perforation record (interval, size, and number)

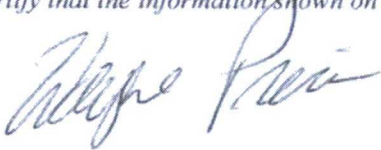
6136.0' - 13,019.5' .42" (720)

27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.

DEPTH INTERVAL AMOUNT AND KIND MATERIAL USED

6136-13019.5 See attached Perf Record

15% HCL-Prop Chemicals

Date First Production Sept 01, 2017		Production Method (<i>Flowing, gas lift, pumping - Size and type pump</i>) Pumping-ESP 228 HP			Well Status (<i>Prod. or Shut-in</i>) <i>Producing</i>		
Date of Test 21 days in Sept 2017	Hours Tested: 24 hr aver	Choke Size: 64/64	Prod'n For Test Period	Oil - Bbl 160	Gas - MCF 83	Water - Bbl. 1030	Gas - Oil Ratio NA
Flow Tubing Press. Not available	Casing Pressure: Not Available	Calculated 24- Hour Rate	Oil - Bbl. 160	Gas - MCF 83	Water - Bbl. 1030	Oil Gravity - API - (<i>Corr.</i>) 31.7	
29. Disposition of Gas (<i>Sold, used for fuel, vented, etc.</i>) <i>Flared</i>						30. Test Witnessed By- SEI Personnel	
31. List Attachments Well Bore Sketch, Geo Prognosis, Formation Tops, Lithology Log, Perf records and Deviation Survey							
32. If a temporary pit was used at the well, attach a plat with the location of the temporary pit. NA						33. Rig Release Date: 5-28-17	
34. If an on-site burial was used at the well, report the exact location of the on-site burial: NA							
Latitude				Longitude		NAD83	
I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief							
Signature: 							
Printed Name: Wayne Price-Price LLC		Title MGM and Consultant for SE II				Date Mar 14, 2018	
E-mail Address wayneprice@q.com 505-715-2809							

	A	B	C	D	E	F	G	H	I	J	K	L
1				Pump Times				Perforations				
2	Well Name	AFE #	Stage	Start Date	Start Time	End Time	Pump Time	Top Perf	Bottom Perf	SPF	Perf Clusters	Perfs
3	Heisenberg State 3H	1704020DR	1	8/3/17	4:59 AM	10:58 AM	2:12	12,792.5	13,019.5	3	4	24
4	Heisenberg State 3H	1704020DR	2	8/3/17	1:45 PM	3:01 PM	1:16	12,492.5	12,719.5	3	4	24
5	Heisenberg State 3H	1704020DR	3	8/3/17	4:45 PM	6:00 PM	1:14	12,192.5	12,419.5	3	4	24
6	Heisenberg State 3H	1704020DR	4	8/3/17	8:07 PM	9:29 PM	1:21	11,892.5	12,119.5	3	4	24
7	Heisenberg State 3H	1704020DR	5	8/4/17	1:01 AM	2:22 AM	1:20	11,592.5	11,819.5	3	4	24
8	Heisenberg State 3H	1704020DR	6	8/4/17	7:25 AM	8:41 AM	1:08	11,292.5	11,519.5	3	4	24
9	Heisenberg State 3H	17040202DR	7	9/25/17	12:25 PM	1:45 PM	1:19	11,054.0	11,227.0	3	4	24
10	Heisenberg State 3H	17040202DR	8	9/25/17	4:55 PM	6:13 PM	1:17	10,831.0	10,998.0	3	4	24
11	Heisenberg State 3H	17040202DR	9	9/25/17	8:15 PM	11:05 PM	1:21	10,610.0	10,777.0	3	4	24
12	Heisenberg State 3H	17040202DR	10	9/26/17	1:35 AM	2:55 AM	1:19	10,389.0	10,556.0	3	4	24
13	Heisenberg State 3H	17040202DR	11	9/26/17	6:42 AM	8:00 AM	1:17	10,168.0	10,335.0	3	4	24
14	Heisenberg State 3H	17040202DR	12	9/26/17	9:13 PM	10:24 PM	1:10	9,947.0	10,114.0	3	4	24
15	Heisenberg State 3H	17040202DR	13	9/28/17	12:28 AM	1:30 AM	1:01	9,726.0	9,893.0	3	4	24
16	Heisenberg State 3H	17040202DR	14	9/27/17	3:14 AM	4:18 AM	1:03	9,505.0	9,672.0	3	4	24
17	Heisenberg State 3H	17040202DR	15	9/27/17	6:53 AM	7:56 AM	1:02	9,284.0	9,451.0	3	4	24
18	Heisenberg State 3H	17040202DR	16	9/27/17	9:38 AM	10:41 AM	1:02	9,063.0	9,230.0	3	4	24
19	Heisenberg State 3H	17040202DR	17	9/27/17	1:51 PM	2:57 PM	1:05	8,842.0	9,009.0	3	4	24
20	Heisenberg State 3H	17040202DR	18	9/27/17	4:42 PM	5:40 PM	0:57	8,621.0	8,788.0	3	4	24
21	Heisenberg State 3H	17040202DR	19	9/27/17	8:29 PM	9:35 PM	1:05	8,400.0	8,567.0	3	4	24
22	Heisenberg State 3H	17040202DR	20	9/27/17	12:03 AM	1:08 AM	1:04	8,179.0	8,346.0	3	4	24
23	Heisenberg State 3H	17040202DR	21	9/28/17	3:00 AM	4:21 AM	1:20	7,958.0	8,125.0	3	4	24
24	Heisenberg State 3H	17040202DR	22	9/28/17	11:00 AM	12:14 PM	1:13	7,737.0	7,904.0	3	4	24
25	Heisenberg State 3H	17040202DR	23	9/28/17	2:06 PM	3:18 PM	1:11	7,516.0	7,683.0	3	4	24
26	Heisenberg State 3H	17040202DR	24	9/28/17	4:42 PM	5:48 PM	1:05	7,295.0	7,462.0	3	4	24
27	Heisenberg State 3H	17040202DR	25	9/28/17	10:44 PM	11:47 PM	1:02	7,074.0	7,241.0	3	4	24
28	Heisenberg State 3H	17040202DR	26	9/29/17	2:33 AM	3:37 AM	1:03	6,853.0	7,020.0	3	4	24
29	Heisenberg State 3H	17040202DR	27	9/29/17	12:10 PM	1:12 PM	1:01	6,632.0	6,799.0	3	4	24
30	Heisenberg State 3H	17040202DR	28	9/29/17	10:20 PM	11:31 PM	1:10	6,411.0	6,578.0	3	4	24
31	Heisenberg State 3H	17040202DR	29	9/30/17	1:19 AM	2:18 AM	0:58	6,190.0	6,357.0	3	4	24
32	Heisenberg State 3H	17040202DR	30	9/30/17	7:18 AM	8:27 AM	1:08	5,969.0	6,136.0	3	4	24

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

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

Form C-103
Revised July 18, 2013

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.)		WELL API NO. 30-025-43753
1. Type of Well: Oil Well ☒ Gas Well ☐ Other ☐		5. Indicate Type of Lease STATE ☒ FEE ☐
2. Name of Operator Steward Energy II, LLC		6. State Oil & Gas Lease No. V092040002, V097360001, V091880002
3. Address of Operator 2600 N Dallas Pkwy, Suite 400 Frisco, TX 75034,		7. Lease Name or Unit Agreement Name Heisenberg State Com
4. Well Location Unit Letter <u>J</u> : 2442 feet from the <u>South</u> line and 1500 feet from the <u>East</u> line Section <u>3</u> Township <u>14S</u> Range <u>38E</u> NMPM County <u>Lea</u>		8. Well Number <u>3H</u>
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3800'		9. OGRID Number <u>3711682</u>
		10. Pool name or Wildcat Bronco; San Andres, South

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

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK ☐	PLUG AND ABANDON ☐	REMEDIAL WORK ☐	ALTERING CASING ☐
TEMPORARILY ABANDON ☐	CHANGE PLANS ☐	COMMENCE DRILLING OPNS. ☐	P AND A ☐
PULL OR ALTER CASING ☐	MULTIPLE COMPL ☐	CASING/CEMENT JOB ☐	
DOWNHOLE COMMINGLE ☐			
CLOSED-LOOP SYSTEM ☐			
OTHER: ☐		OTHER: ☒ XX	

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.

Please find attached the amended C-102 Well Location and Acreage Dedication Plat for the Steward Energy II Heisenberg 3H well.

Spud Date: 5-11-17 Rig Release Date: 5-28-2017

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

SIGNATURE Wayne Price TITLE Consultant for SE II DATE March 14, 2018

Type or print name Wayne Price –Price LLC E-mail address: wayneprice@q.com PHONE: 505-715-2809
For State Use Only

APPROVED BY: _____ TITLE _____ DATE _____
Conditions of Approval (if any): _____

DRILTECH MWD SURVEY REPORT



Company: Steward Energy II, LLC
 Well: Heisenberg State 3H
 Location: Lea County, NM
 Rig: McVay 5

Job Number: DM-2017-053-SED-TM
 Vertical Section Plane: 359.25
 Well API Number: 30-025-43753
 Tie Into: VES Survey International

All Azimuths
 Corrected To: **Grid North**

Calculation Method: Minimum Curvature

Survey #	Survey Tool Type	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates N(+) / S(-) (ft)	E(+) / W(-) (ft)	Closure Distance (ft)	Angle (deg)	Dogleg Severity (d/100')	Build Rate (d/100')	Walk Rate (d/100')
Tie In	VES													
1	VES	97.76	0.60	27.18	98	97.76	0.45	0.46	0.23	0.51	27.18	0.61	0.61	27.80
2	VES	192.12	0.40	78.34	94	192.12	0.95	0.96	0.78	1.24	39.13	0.50	-0.21	54.22
3	VES	286.48	0.63	119.06	94	286.47	0.76	0.78	1.56	1.74	63.52	0.44	0.24	43.15
4	VES	380.84	0.27	169.01	94	380.83	0.28	0.31	2.05	2.08	81.53	0.53	-0.38	52.94
5	VES	475.20	0.50	50.85	94	475.19	0.32	0.35	2.42	2.44	81.81	0.71	0.24	-125.22
6	VES	569.56	0.68	97.13	94	569.54	0.49	0.54	3.29	3.33	80.72	0.52	0.19	49.05
7	VES	663.92	0.67	100.65	94	663.90	0.31	0.37	4.39	4.40	85.23	0.05	-0.01	3.73
8	VES	758.28	0.72	119.68	94	758.25	-0.10	-0.03	5.45	5.45	90.31	0.25	0.05	20.17
9	VES	852.64	0.76	135.95	94	852.60	-0.86	-0.77	6.40	6.44	96.89	0.23	0.04	17.24
10	VES	947.00	0.51	155.45	94	946.96	-1.70	-1.60	7.01	7.19	102.90	0.35	-0.26	20.67
11	VES	1041.36	0.50	190.17	94	1041.31	-2.48	-2.39	7.11	7.50	108.60	0.32	-0.01	36.80
12	VES	1135.72	0.54	260.46	94	1135.67	-2.96	-2.87	6.60	7.19	113.52	0.64	0.04	74.49
13	VES	1230.08	0.47	286.38	94	1230.03	-2.91	-2.83	5.79	6.44	116.10	0.25	-0.07	27.47
14	VES	1324.44	0.74	331.30	94	1324.38	-2.26	-2.19	5.12	5.57	113.16	0.56	0.29	47.60
15	VES	1418.80	0.85	37.48	94	1418.73	-1.17	-1.10	5.26	5.37	101.84	0.93	0.12	-311.38
16	VES	1513.16	1.25	74.14	94	1513.08	-0.35	-0.26	6.67	6.68	92.27	0.81	0.42	38.85
17	VES	1607.52	0.84	84.11	94	1607.42	-0.02	0.09	8.35	8.35	89.40	0.47	-0.43	10.57
18	VES	1701.88	0.97	127.78	94	1701.77	-0.46	-0.33	9.67	9.67	91.96	0.72	0.14	46.28
19	VES	1796.24	0.95	83.55	94	1796.12	-0.88	-0.73	11.08	11.10	93.78	0.77	-0.02	-46.87
20	VES	1890.60	0.87	112.16	94	1890.47	-1.08	-0.91	12.52	12.55	94.18	0.48	-0.08	30.32
21	VES	1984.96	0.89	130.44	94	1984.82	-1.84	-1.66	13.74	13.84	96.89	0.30	0.02	19.37
22	VES	2079.32	0.92	183.19	94	2079.17	-3.08	-2.89	14.25	14.55	101.47	0.85	0.03	55.90
23	VES	2173.68	1.25	201.38	94	2173.51	-4.79	-4.61	13.84	14.58	108.41	0.50	0.35	19.28
24	VES	2268.04	1.77	188.77	94	2267.84	-7.18	-7.01	13.24	14.98	117.88	0.65	0.55	-13.36
25	VES	2362.00	1.28	216.24	94	2361.77	-9.45	-9.29	12.40	15.49	126.83	0.92	-0.52	29.24
26	MWD	2435.00	0.88	208.99	73	2434.75	-10.59	-10.43	11.64	15.64	131.86	0.58	-0.55	-9.93
27	MWD	2466.00	0.70	220.24	31	2465.75	-10.94	-10.79	11.41	15.70	133.40	0.76	-0.58	36.29
28	MWD	2561.00	1.49	264.45	95	2560.73	-11.48	-11.35	9.80	15.00	139.18	1.16	0.83	46.54
29	MWD	2655.00	4.13	277.89	94	2654.61	-11.07	-11.00	5.23	12.18	154.56	2.88	2.81	14.30
30	MWD	2749.00	6.95	272.44	94	2748.16	-10.24	-10.30	-3.80	10.98	200.28	3.05	3.00	-5.80
31	MWD	2843.00	8.88	274.99	94	2841.26	-9.20	-9.42	-16.71	19.19	240.59	2.09	2.05	2.71
32	MWD	2937.00	10.11	273.06	94	2933.98	-7.93	-8.35	-32.18	33.25	255.45	1.35	1.31	-2.05
33	MWD	3031.00	10.02	273.41	94	3026.53	-6.79	-7.42	-48.58	49.15	261.31	0.12	-0.10	0.37
34	MWD	3126.00	9.58	275.08	95	3120.14	-5.38	-6.23	-64.71	65.01	264.50	0.55	-0.46	1.76
35	MWD	3220.00	9.94	271.48	94	3212.78	-4.27	-5.33	-80.61	80.79	266.22	0.75	0.38	-3.83
36	MWD	3314.00	9.58	273.09	94	3305.42	-3.44	-4.70	-96.53	96.64	267.21	0.48	-0.38	1.71
37	MWD	3409.00	9.32	272.44	95	3399.13	-2.48	-3.95	-112.11	112.18	267.98	0.30	-0.27	-0.68
38	MWD	3503.00	8.53	271.39	94	3491.99	-1.79	-3.45	-126.68	126.73	268.44	0.86	-0.84	-1.12
39	MWD	3597.00	9.67	265.59	94	3584.81	-2.04	-3.89	-141.53	141.58	268.43	1.56	1.21	-6.17
40	MWD	3691.00	9.58	265.06	94	3677.49	-3.11	-5.17	-157.19	157.27	268.12	0.13	-0.10	-0.56



DRILTECH MWD SURVEY REPORT

Company: Steward Energy II, LLC
 Well: Heisenberg State 3H
 Location: Lea County, NM
 Rig: McVay 5

Job Number: DM-2017-053-SED-TM
 Vertical Section Plane: 359.25
 Well API Number: 30-025-43753
 Tie Into: VES Survey International

All Azimuths
 Corrected To: **Grid North**

Calculation Method: Minimum Curvature

Survey #	Survey Tool Type	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates N(+) / S(-) (ft)	Coordinates E(+) / W(-) (ft)	Closure Distance (ft)	Angle (deg)	Dogleg Severity (d/100')	Build Rate (d/100')	Walk Rate (d/100')
41	MWD	3786.00	8.97	265.33	95	3771.25	-4.20	-6.45	-172.45	172.57	267.86	0.64	-0.64	0.28
42	MWD	3880.00	10.46	272.53	94	3863.90	-4.21	-6.67	-188.28	188.40	267.97	2.04	1.59	7.66
43	MWD	3974.00	9.94	275.26	94	3956.41	-2.87	-5.55	-204.88	204.96	268.45	0.76	-0.55	2.90
44	MWD	4069.00	10.55	271.83	95	4049.90	-1.62	-4.52	-221.74	221.78	268.83	0.91	0.64	-3.61
45	MWD	4163.00	10.46	271.39	94	4142.32	-0.92	-4.04	-238.87	238.90	269.03	0.13	-0.10	-0.47
46	MWD	4258.00	10.02	270.25	95	4235.81	-0.45	-3.80	-255.75	255.78	269.15	0.51	-0.46	-1.20
47	MWD	4351.00	9.85	268.14	93	4327.42	-0.46	-4.02	-271.80	271.83	269.15	0.43	-0.18	-2.27
48	MWD	4446.00	8.79	266.91	95	4421.16	-0.92	-4.68	-287.17	287.20	269.07	1.14	-1.12	-1.29
49	MWD	4540.00	9.50	268.58	94	4513.96	-1.30	-5.26	-302.09	302.14	269.00	0.81	0.76	1.78
50	MWD	4634.00	10.11	269.81	94	4606.59	-1.31	-5.47	-318.10	318.15	269.01	0.69	0.65	1.31
51	MWD	4729.00	9.50	268.58	95	4700.20	-1.32	-5.70	-334.27	334.32	269.02	0.68	-0.64	-1.29
52	MWD	4823.00	10.29	267.61	94	4792.80	-1.65	-6.24	-350.42	350.47	268.98	0.86	0.84	-1.03
53	MWD	4917.00	10.11	264.89	94	4885.32	-2.52	-7.32	-367.02	367.10	268.86	0.55	-0.19	-2.89
54	MWD	5011.00	11.34	266.03	94	4977.68	-3.67	-8.70	-384.46	384.56	268.70	1.33	1.31	1.21
55	MWD	5105.00	10.99	266.38	94	5069.90	-4.63	-9.90	-402.62	402.74	268.59	0.38	-0.37	0.37
56	MWD	5199.00	10.38	264.71	94	5162.27	-5.75	-11.25	-420.00	420.15	268.47	0.73	-0.65	-1.78
57	MWD	5294.00	10.11	263.57	95	5255.75	-7.25	-12.97	-436.80	437.00	268.30	0.36	-0.28	-1.20
58	MWD	5388.00	9.76	263.13	94	5348.34	-8.92	-14.85	-452.91	453.16	268.12	0.38	-0.37	-0.47
59	MWD	5482.00	11.17	269.19	94	5440.78	-9.78	-15.93	-469.93	470.20	268.06	1.90	1.50	6.45
60	MWD	5577.00	11.43	267.70	95	5533.94	-10.04	-16.44	-488.54	488.81	268.07	0.41	0.27	-1.57
61	MWD	5671.00	11.17	267.52	94	5626.12	-10.57	-17.21	-506.94	507.23	268.06	0.28	-0.28	-0.19
62	MWD	5765.00	10.55	268.84	94	5718.43	-10.91	-17.78	-524.64	524.94	268.06	0.71	-0.66	1.40
63	MWD	5859.00	10.20	268.75	94	5810.89	-11.04	-18.13	-541.56	541.87	268.08	0.37	-0.37	-0.10
64	MWD	5954.00	9.85	268.93	95	5904.44	-11.16	-18.47	-558.10	558.40	268.10	0.37	-0.37	0.19
65	MWD	6048.00	9.50	269.90	94	5997.11	-11.12	-18.63	-573.89	574.20	268.14	0.41	-0.37	1.03
66	MWD	6142.00	8.88	270.77	94	6089.90	-10.84	-18.55	-588.91	589.20	268.20	0.68	-0.66	0.93
67	MWD	6237.00	8.09	271.30	95	6183.86	-10.40	-18.30	-602.92	603.20	268.26	0.84	-0.83	0.56
68	MWD	6297.00	7.65	269.63	60	6243.29	-10.23	-18.23	-611.13	611.41	268.29	0.83	-0.73	-2.78
69	PTB	6355.00	7.65	269.63	58	6300.78	-10.17	-18.28	-618.86	619.13	268.31	0.00	0.00	0.00



TDS

DrilTech, LLC

MWD Survey Report

Job No: DM-2017-053-SED-T-NM

Operator: **Steward Energy II, LLC**
Well Name: **Heisenberg State 3H**
Location: **Lea County, NM**
Rig: **McVay 5**
Directional Drilling Co: **DrilTech, LLC**
Well API #: **30-025-43753**
Tie Into: **VES Survey International**
Tie-In Date: **5/12/17**
Date Completed:

Reference Coordinates: LAT:

33	°	7	'	58.5200	"	N
103	°	4	'	51.5600	"	W

LON:
Reference Grid Coordinates: X: 566680.11 (ft)
Y: 7125675.26 (ft)

Reference Grid: NAD 83
Zone: TX North Central
(UTM or Lambert): Lambert

Survey Vertical Reference: 18.50 (ft) Rotary Table to Ground Level
Elevation: 3800.00 (ft) Ground Level to Mean Sea Level
Vertical Section Plane: 359.25 (deg)

North Alignment: Grid North

<u>Magnetic Data</u>	<u>Section 1</u>	<u>Section 2</u>	<u>Section 3</u>	<u>Section 4</u>
Magnetic Declination (deg)	6.80			
Grid (deg)	-2.50			
TOTAL CORRECTION (deg)	9.30			
Depth Start (MD Ft)	2362.00			
Depth End (MD Ft)	6355.00			

REMARKS:

As per Steward Energy's request, all survey values presented in this document were calculated utilizing Texas North Central Grid Zone/NAD 83. The entire wellbore is located within Lea County, New Mexico and was drilled utilizing New Mexico Eastern Grid Zone/NAD 83. All survey values within this document are for reference only, and do not reflect exact as-drilled hole location values and may not be filed with any state regulatory agencies.

FORMATION TOPS

WELL SITE

CORRELATION LOG

Heisenberg #3H (Pilot)

Heisenberg #3H

KB =

3819

KB =

3819

FORMATION	TVD	Subsea	MDepth	VSection	Lithology	TVDepth	Subsea	H
stier	2237	1582	2237		anhy	2237	1582	122
lado	2359	1460	2359		sltst / ss / ls	2359	1460	643
Surface Casing 9 5/8"	2400	1419	2400			*****	*****	*****
stile	2989	817	3000		anhy	3002	817	81
rsill	3098	736	3102		dol / ss	3083	736	102
tes	3189	640	3195		ss / dol / sh	3185	640	250
ven Rivers	3449	384	3459		gyp / ss / sh / dol	3435	384	545
leen	4004	-161	4022		ss / dol / anhy	3980	-161	395
ayburg	4394	-556	4418		dol / anhy / ss	4375	-556	279
n Andres	4719	-835	4748		dol / anhy / sh	4654	-835	533
Kick - Off - Point	4815	-997	4800	-21.35	dol / anhy / sh	*****	*****	*****
inz Marker	5186	-1368	5266	148	dol / anhy / sh / pyr	5187	-1326	80
ambliss A	5265	-1447	5388	215	dol / anhy / sh / pyr	5267	-1448	48
Marker	5310	-1492	5479	293	dol / sltst / anhy / pyr	5315	-1496	89
ahaney B	5360	-1542	5640	445	dol / anhy / sh / pyr	5404	-1585	5
> SOL - Centerline Target	5369	-1551	5750	554	pl / sh / anhy / pyr / chert	x	x	x
> MOL - Centerline Target	5336	-1518	9560	4364	pl / sh / anhy / pyr / chert	x	x	x
> EOL - Centerline Target	5304	-1486	13185	7989	pl / sh / anhy / pyr / chert	x	x	x
ahaney C			*****	*****	dol / sltst / anhy / pyr	5409	-1590	42
ahaney D			*****	*****	dol / sh / anhy / pyr	5451	-1632	*****
Production Casing 5 1/2"			13185					

REMARKS: This is the horizontal portion of the Heisenberg #3H. The target interval is in the Brahaney B zone. Limited data suggest the interval will climb up structure by ~70'. There exists little control towards the toe, therefore adjustments to plan should be expected

INSTRUCTIONS

**See Attached –Well Bore Schematic, Geological Well Prognosis with Formation
Tops, Lithology,**

Perf Records and Direction Survey .

This form is to be filed with the appropriate District Office of the Division not later than 20 days after the completion of any newly-drilled or deepened well and not later than 60 days after completion of closure. When submitted as a completion report, this shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, items 11, 12 and 26-31 shall be reported for each zone.

**INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE-
See Attached**

Southeastern New Mexico		Northwestern New Mexico	
T. Anhy	T. Canyon	T. Ojo Alamo	T. Penn A"
T. Salt	T. Strawn	T. Kirtland	T. Penn. "B"
B. Salt	T. Atoka	T. Fruitland	T. Penn. "C"
T. Yates	T. Miss	T. Pictured Cliffs	T. Penn. "D"
T. 7 Rivers	T. Devonian	T. Cliff House	T. Leadville
T. Queen	T. Silurian	T. Menefee	T. Madison
T. Grayburg	T. Montoya	T. Point Lookout	T. Elbert
T. San Andres	T. Simpson	T. Mancos	T. McCracken
T. Glorieta	T. McKee	T. Gallup	T. Ignacio Otzte
T. Paddock	T. Ellenburger	Base Greenhorn	T. Granite
T. Blinebry	T. Gr. Wash	T. Dakota	
T. Tubb	T. Delaware Sand	T. Morrison	
T. Drinkard	T. Bone Springs	T. Todilto	
T. Abo	T.	T. Entrada	
T. Wolfcamp	T.	T. Wingate	
T. Penn	T.	T. Chinle	
T. Cisco (Bough C)	T.	T. Permian	

OIL OR GAS SANDS OR ZONES

No. 1, from.....to.....
No. 2, from.....to.....

No. 3, from.....to.....
No. 4, from.....to.....

IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from.....to.....feet.....
No. 2, from.....to.....feet.....
No. 3, from.....to.....feet.....

LITHOLOGY RECORD (Attach additional sheet if necessary)

From	To	Thickness In Feet	Lithology		From	To	Thickness In Feet	Lithology
			See attached					

Geologist: **Shane Seals**

Cell: 214-492-3636

leisenberg #3H

(San Andres - Horizontal)

VS: 8154

**JDL0G : Horizon - (Tulsa: Opts Mgr - Raechel @ 918-271-8698) -
Jd Logging Unit (Day: Austin @ 208-703-0575 / Night: Paul @ 972-
0-9854); Begin logging after KOP and continue to TD. Sample
ery 30' or as ROP dictates**

DISTRICT I
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DISTRICT II
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Phone (505) 748-1283 Fax: (505) 748-0720

DISTRICT III
1000 Rio Brazos Rd., 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 Department

Form C-102
Revised August 1, 2011

Submit one copy to appropriate
District Office

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

WELL LOCATION AND ACREAGE DEDICATION PLAT

XX AMENDED REPORT

API Number 30-025-43753	Pool Code 07500	Pool Name BRONCO; SAN ANTONIO, SOUTH
Property Code 317665	Property Name HEISENBERG STATE	Well Number 3H
OGRID No. 3711682	Operator Name STEWART ENERGY II, LLC	Elevation 3800'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
J	3	14 S	38 E		2442	SOUTH	1500	EAST	LEA

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
B	34	13 S	38 E		330	NORTH	2000	EAST	LEA

Dedicated Acres 240	Joint or Infill	Consolidation Code	Order No.
------------------------	-----------------	--------------------	-----------

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

N: 786380.3 E: 920793.3 (NAD83) LAST TAKE POINT 345' FNL & 2000' FEL Lat - N 33°09'16.18" Long - W 103°04'57.57" Lat - N 33.154495" Long - W 103.082657" NMSPCE- N 786031.5 E 924108.2 (NAD-83) Lat - N 33°09'15.80" Long - W 103°04'55.77" Lat - N 33.154388" Long - W 103.082158" NMSPCE- N 785969.0 E 882932.2 (NAD-27) N: 781033.9 E: 920858.2 (NAD83) FIRST TAKE POINT 2070' FNL & 2000' FEL Lat - N 33°08'59.10" Long - W 103°04'57.41" Lat - N 33.149751" Long - W 103.082614" NMSPCE- N 784305.3 E 924141.9 (NAD-83) Lat - N 33°08'58.72" Long - W 103°04'55.62" Lat - N 33.149643" Long - W 103.082115" NMSPCE- N 784242.9 E 882965.9 (NAD-27) N: 775694.8 E: 920939.8 (NAD83)		N: 786383.3 E: 926106.3 (NAD83) PROPOSED BOTTOM LOCATION Lat - N 33°09'17.53" Long - W 103°04'57.54" Lat - N 33.154870" Long - W 103.082651" NMSPCE- N 786168.0 E 924108.5 (NAD-83) Lat - N 33°09'17.15" Long - W 103°04'55.75" Lat - N 33.154763" Long - W 103.082152" NMSPCE- N 786105.5 E 882932.5 (NAD-27) N: 781097.7 E: 926194.6 (NAD83) SURFACE LOCATION Lat - N 33°07'58.52" Long - W 103°04'51.56" Lat - N 33.132922" Long - W 103.080989" NMSPCE- N 778187.6 E 924712.7 (NAD-83) Lat - N 33°07'58.13" Long - W 103°04'49.76" Lat - N 33.132814" Long - W 103.080490" NMSPCE- N 578744.6 E 292546.8 (NAD-27) N: 775765.3 E: 926227.5 (NAD83)	OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. Signature <i>Wayne Price</i> Date 3/14/18 CONSULTANT FOR SEED WAYNE PRICE-PRICE LLC Printed Name WAYNE PRICE@g.com Email Address SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision and that the same is true and correct to the best of my belief. MARCH 19, 2018 Date Surveyed Signature of Professional Surveyor Professional Surveyor 7977 Certificate No. Gary L. Lopes 7977 BASIN SURVEYS 0' 1000' 2000' 3000' 4000' SCALE: 1" = 2000' WO Num.: 32742
--	--	--	--

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State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102
Revised August 1, 2011

Submit one copy to appropriate
District Office

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

WELL LOCATION AND ACREAGE DEDICATION PLAT

XX AMENDED REPORT

API Number 30-025-43753	Pool Code 07500	Pool Name BRONCO; SAN ANTONIO, SOUTH
Property Code 317665	Property Name HEISENBERG STATE	Well Number 3H
GRID No. 3711682	Operator Name STEWART ENERGY II, LLC	Elevation 3800'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
J	3	14 S	38 E		2442	SOUTH	1500	EAST	LEA

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
B	34	13 S	38 E		330	NORTH	2000	EAST	LEA

Dedicated Acres 240	Joint or Infill	Consolidation Code	Order No.
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

N: 786380.3 E: 920793.3 (NAD83) LAST TAKE POINT 345' FNL & 2000' FEL Lat - N 33°09'16.18" Long - W 103°04'57.57" Lat - N 33.154495° Long - W 103.082657° NMSPEC- N 786031.5 E 924108.2 (NAD-83) Lat - N 33°09'15.80" Long - W 103°04'55.77" Lat - N 33.154388° Long - W 103.082158° NMSPEC- N 785969.0 E 882932.2 (NAD-27) N: 781033.9 E: 920858.2 (NAD83) FIRST TAKE POINT 2070' FNL & 2000' FEL Lat - N 33°08'59.10" Long - W 103°04'57.41" Lat - N 33.149751° Long - W 103.082614° NMSPEC- N 784305.3 E 924141.9 (NAD-83) Lat - N 33°08'58.72" Long - W 103°04'55.62" Lat - N 33.149643° Long - W 103.082115° NMSPEC- N 784242.9 E 882965.9 (NAD-27) N: 775694.8 E: 920939.8 (NAD83)		N: 786383.3 E: 926106.3 (NAD83) PROPOSED BOTTOM LOCATION Lat - N 33°09'17.53" Long - W 103°04'57.54" Lat - N 33.154870° Long - W 103.082651° NMSPEC- N 786168.0 E 924108.5 (NAD-83) Lat - N 33°09'17.15" Long - W 103°04'55.75" Lat - N 33.154763° Long - W 103.082152° NMSPEC- N 786105.5 E 882932.5 (NAD-27) N: 781097.7 E: 926194.6 (NAD83) SURFACE LOCATION Lat - N 33°07'58.52" Long - W 103°04'51.56" Lat - N 33.132922° Long - W 103.080989° NMSPEC- N 778187.6 E 924712.7 (NAD-83) Lat - N 33°07'58.13" Long - W 103°04'49.76" Lat - N 33.132814° Long - W 103.080490° NMSPEC- N 578744.6 E 292546.8 (NAD-27) N: 775765.3 E: 926227.5 (NAD83)	OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or undivided mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. Signature <i>Wayne Price</i> Date 3/14/18 CONSULTANT FOR SEED WAYNE PRICE-PRICE LLC Printed Name WAYNE PRICE@G.COM Email Address SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision and that the same is true and correct to the best of my belief. MARCH 19, 2018 Date Surveyed Signature <i>Wayne Price</i> Professional Surveyor 7977 Certificate No. Gary L. Lopes 7977 BASIC SURVEYS 0' 1000' 2000' 3000' 4000' SCALE: 1" = 2000' WO Num.: 32742
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State of New Mexico
Energy, Minerals and Natural Resources

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

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 ☐		WELL API NO. 30-025-43753 5. Indicate Type of Lease STATE ☒ FEE ☐ 6. State Oil & Gas Lease No. V092040002, V097360001, V091880002 7. Lease Name or Unit Agreement Name Heisenberg State Com 8. Well Number 3H 9. OGRID Number 3711682 10. Pool name or Wildcat Bronco; San Andres, South
2. Name of Operator Steward Energy II, LLC 3. Address of Operator 2600 N Dallas Pkwy, Suite 400 Frisco, TX 75034, 4. Well Location Unit Letter <u>J</u> : 2442 feet from the <u>South</u> line and 1500 feet from the <u>East</u> line Section <u>3</u> Township <u>14S</u> Range <u>38E</u> NMPM County <u>Lea</u>		
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3800'		

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: ☐

SUBSEQUENT REPORT OF:
 REMEDIAL WORK ☐ ALTERING CASING ☐
 COMMENCE DRILLING OPNS. ☐ P AND A ☐
 CASING/CEMENT JOB ☐
 OTHER: ☒ XX

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.

Please find attached the amended C-102 Well Location and Acreage Dedication Plat for the Steward Energy II Heisenberg 3H well.

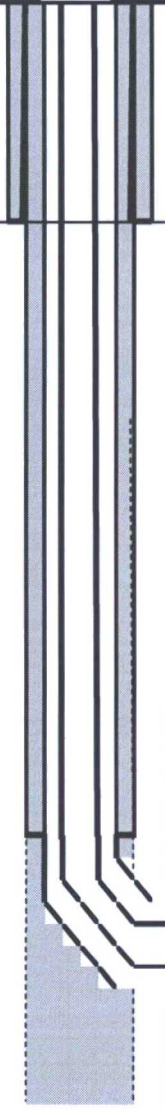
Spud Date: 5-11-17 Rig Release Date: 5-28-2017

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

SIGNATURE Wayne Price TITLE Consultant for SE II DATE March 14, 2018

Type or print name Wayne Price –Price LLC E-mail address: wayneprice@q.com PHONE: 505-715-2809
For State Use Only

APPROVED BY: _____ TITLE _____ DATE _____
 Conditions of Approval (if any): _____

General	Company:		Steward Energy II, LLC		Prospect:		Bronco		
	Well Name:		Heisenberg 3H		TD (MD/TVD):		13,156' MD/ 5299' TVD		
	County:		Lea		Elevation:		3800' GL & 3819' KB		
	State:		New Mexico		Latitude & longitude:		33.132922/103.080989		
	API Number:		30-025-43753		Section-Township-Range		Sec 3, T14S, R38E		
					Surface Location:		2442' FSL & 1500' FEL		
						Bottom Hole Location:		330' FNL & 2000' FEL	
Formation	Depth		Casing Profile	Hole Size	Casing Specifications	Mud & Cement Program			
	MD	TVD							
				12 1/4"	9 5/8" 36#/ft J-55	Cement w/650sx "C" 35/65PozC(12.8gps,1.94cfs/10.38gps) + 200sx "C" Neat (14.8ppg/1.32cfs/6.30gps)			
9 5/8" Casing @ 2420'				8 3/4"	5 1/2" 20#/ft L-80 BTC	Cement w/660sx 50/50 P/C () + 2330sx 50/50 P/C ()			
						10 Deg DL @ 4877'			
			CURVE	8 3/4"	5 1/2" 20#/ft L-80 BTC	Curve: 4877' - 5757'			
			LATERAL	8 3/4"	5 1/2" 20#/ft L-80 BTC	TD Lateral @ 13,156' MD/ 5299' TVD Lateral: 5757' - 13,156'			
Comments									