#### UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

**NMOCD** Hobbs

FORM APPROVED OMB NO. 1004-0135 Expires: July 31, 2010

5. Lease Serial No. NMNM27506

SUNDRY NO	OTICES AND	REPORTS	ON WELLS
Do not use this	form for prop	osals to drill o	or to re-enter an
abandoned well.	Use form 316	10-3 (APD) for	such proposals.

6. If Indian, Allottee or Tribe Name 7. If Unit or CA/Agreement, Name and/or No. SUBMIT IN TRIPLICATE - Other instructions on reverse side Type of Well 8. Well Name and No. SALADO DRAW 29 26 33 FED COM 1H ☑ Oil Well ☐ Gas Well ☐ Other DENISE PINKERTON API Well No. Name of Operator Contact: CHEVRON USA INCORPORATED 30-025-42629-00-X1 E-Mail: leakejd@chevron.com 3a. Address 3b. Phone No. (include area code) 10. Field and Pool, or Exploratory 15 SMITH ROAD Ph: 432-687-7375 WC025G06S263319P-BONE SPRING MIDLAND, TX 79705 11. County or Parish, and State 4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 29 T26S R33E NWNW 200FNL 1283FWL LEA COUNTY, NM 12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA TYPE OF SUBMISSION TYPE OF ACTION ☐ Acidize ☐ Deepen ☐ Production (Start/Resume) ☐ Water Shut-Off ■ Notice of Intent ☐ Alter Casing □ Fracture Treat □ Reclamation ■ Well Integrity Subsequent Report Casing Repair ■ New Construction ☐ Recomplete Other **Drilling Operations** ☐ Final Abandonment Notice ☐ Change Plans ☐ Plug and Abandon ☐ Temporarily Abandon ☐ Convert to Injection ☐ Plug Back ■ Water Disposal 13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.) 11/15/2015: SPUD WELL. DRILL 17 1/2" SURFACE HOLE 80-870. 11/16/2015: RAN 13 3/8",48#,H-40 STC SURFACE CASING SET @ 860'. CEMENT W/1008 SX CLASS C TAIL CMT @ 14.8PPG. DISPL W/128.8 BBLS FW. BUMP PLUG W/500 PSI OVER FINAL CIRC PRESS @ 796PSI. FULL RETURNS THROUGHOUT JOB. FINAL CIRC PRESS-296PSI. 528 SX CMT RETURNED TO SURFACE. 11/17/2015: TEST BOPE TO 250PSI LOW/5000PSI HIGH. TIH TO 783 - TOC.TEST CSG 1200 PSI FOR 30 MINS. GOOD.DRILL OUT & CLEAN OUT 10' OPEN HOLE DRILL INTERMEDIATE HOLE 870-1073, 1627, 2247, 2602, 3156, 3437, 3812, 3932, 4109, 4556, 4801. 11/21/2015: RAN 9 5/8" INTERMEDIATE CSG SET @ 4791. loc on production? 14. I hereby certify that the foregoing is true and correct. Electronic Submission #347930 verified by the BLM Well Information System For CHEVRON USA INCORPORATED, sent to the Hobbs
Committed to AFMSS for processing by JENN FER SANCHEZ on 08/24/2016 (16/CRW00)6SE) Title REGULATORY SPECIALIST Name (Printed/Typed) DENISE PINKERTON (Electronic Submission) 08/16/2016 Signature THIS SPACE FOR FEDERAL OR STATE OFFICE USE Title Approved By CARLSBAD Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

which would entitle the applicant to conduct operations thereon.

Office

#### Additional data for EC transaction #347930 that would not fit on the form

#### 32. Additional remarks, continued

CEMENT WITH 468 BBLS LEAD CMT & 110 BBLS TAIL CMT, PMP 354 BBLS FW DISPLACEMENT. FINAL CIRC PRESS-1200PSI. WOC 8 HRS. 286 SX CMT TO SURFACE.

11/22/2015: TAG CMT @ 4708. TEST CSG TO 2500PSI. DRILL 8 3/4" VERTICAL HOLE 4801-5451,6340, 7152, 7405, 7760, 8203, 8512, 8575, 8745, 8885, 9106, 9121, 9392, 9549, 9994, 10255, 10610, 10954, 11131, 11751, 12194, 12647, 12903, 13036, 13258, 13425, 13879, 14420, 14676, 15058, 15429, 15562, 15903, 16094, 16114, 16272, 16326, 16361, 16376, 16449, 16469, 16545.

12/06/2015: ESTIMATED TOF - 8886 MD. TEST BOPE TO 250PSI LOW, 5000PSI HIGH. TAG TOP OF FISH @ 8991'. TIH W/22 JOINTS 2 7/8" TBG 12/07/2015: TAG TOP OF FISH @ 8991. WELL FLOWING @ 120-130BPH.

PERFORM A BALANCED CEMENT PLUG OPERATION: PMP 49.5 BBLS OF TAIL @ 5 BPM @ 17.5PPG, 9.4 BBLS CHEMICL WASH @ 5 BPM, 128.7 BBLS BRINE DISPLACEMENT.
12/09/2015: TIH W/WHIPSTOCK 440-5933. TIH 5933-8424. TOP OF WHIPSTOCK @ 8203.
12/10/2015: CEMENT WHIPSTOCK: PRESS TEST LINES TO 500PSI LOW/4000PSI HIGH. PMP 23 BBLS CHEM WASH, 150 SX 17.5PPG TAIL CMT. FULL RTRNS. STING OUT.
12/11/2015:SLIDE & ROTATE.8100-9328'.

12/15/2015: MAKE UP 7 5/8" LINER. TAG BTM @ 9328. FC @ 9324. LANDING COLLAR @ 9185. CEMENT WITH 193 SX LEAD 1 CMT @ 11.5PPG, & 88 SX LEAD 2 CMT @ 12.5PPG. DISPL W/294 BBLS BRINE.

12/16/2015: RIG RELEASED @ 18:00 HRS.

01/10/2016: RIG UP. TEST BOPE TO 250PSI LOW/5000PSI HIGH.
01/12/2016: DRILL 6 3/4" LATERAL HOLE 9334-9581, 9808, 10043, 10620, 10872, 11173, 11476, 11944, 12219, 12500, 12794, 12847, 12867, 12941, 13067,13281,13445, 13843, 13927, 14012, 14330, 14484, 14616, 14865, 15169, 15525, 15816, 15928, 16196, 16467 TD. (01/19/2016)

01/22/2016: RAN 5", 18#,P-110, TENARIS WEDGE 521 CSG SET @ 16452'. SHOE DEPTH: 16452, TOP OF MARKER JT - 8712, TOP OF LANDING COLLAR - 16353, TOP OF RSI TOOL - 16284. TAG BTM @ 16467. CENTRALIZERS:1-10' ABOVE FS, 1-10' ABOVE FC, 1-LANDING COLLAR, EVERY OTHER JT FR 16231-15269, EVERY 3RD JT 15269-9549, EVERY 4TH JT 9549-8852, EVERY 4TH JT 8852-3885. (SEE CONTINUATION ON ATTACHED)

#### **CONTINUATION OF DRILLING OPERATIONS**

#### SALADO DRAW 29 26 33 FED COM #001H

01/23/2016: CEMENT 5" PRODUCTION CASING: 232 SX 1<sup>ST</sup> LEAD POZ H CMT @ 11.5PPG, 575 SX 2<sup>ND</sup> LEAD (TXI) CMT @ 12.5PPG, & 100 SX TAIL CL H CMT @ 15.0PPG. DISPL W/20 BBLS ACID & 271 BBLS FW. NO CMT TO SURFACE. FULL RTRNS THROUGHOUT JOB.

01/24/2016: RIG RELEASED.

ATTACHMENTS: CASING & CEMENTING SUMMARY & DIRECTIONAL DRILL SURVEY



Well Name
SALADO DRAW 29-26-33 FED COM
Salado Draw 29-26-33 Fed
WILDCAT (HOBBS)

Business Unit
Mid-Continent

Ground Elevation (ft)
Original RKB (ft)
Current RKB Elevation

Ground Elevation (ft)

Wester Depth (ft)

| Vertical Section Direction (\*) | Vertical Section Direction (\*)

MD (RKB)	Incl (*)	Azm (*)	TVD (ftKB)	NS (ft)	EW (ft)	VS (ft)	DLS (*/100ft)	Method	Survey Company	Build (*/100ft)	Depart (ft)	Tum (*/100ft)	Unus d da
0	0.00	0.00	0.00	0.00	0.00	0.00		Magn MWD	Phoenix Directional	0.00	0.00	0.00	
185	0.93	165.10	184.99	-1.45	0.39	1.40	0.50	Magn MWD	Phoenix Directional	0.50	1.50	89.24	N
310	1.03	174.22	309.97	-3.55	0.76	3.44	0.15	Magn MWD	Phoenix Directional	0.08	3.63	7.30	N
499	0.97	172.30	498.94	-6.82	1.15	6.65	0.04	Magn MWD	Phoenix Directional	-0.03	6.92	-1.02	N
684	0.90	174.63	683.92	-9.82	1.49	9.59	0.04	Magn MWD	Phoenix Directional	-0.04	9.94	1.26	N
808	0.83	177.17	805.91	-11.66	1.62	11.39		Magn MWD	Phoenix Directional	-0.06	11.77	2.08	N
948	0.96	176.47	947.89	-13.87	1.75	13.58	0.09	Magn MWD	Phoenix Directional	0.09	13.98	-0.49	N
1,125	0.76	183.66	1,124.87	-16.53	1.76	16.21		Magn MWD	Phoenix Directional	-0.11	16.62	4.06	N
1,302	0.48	155.53	1,301.86	-18.37	2.00	18.02		Magn MWD	Phoenix Directional	-0.16	18.48	-15.89	N
1,480	0.52	286.87	1,479.86	-18.82	1.53	18.51		Magn MWD	Phoenix Directional	0.02	18.88	73.79	N
1,657	1.99	289.04	1,656.81	-17.58	-2.14	17.71		Magn MWD	Phoenix Directional	0.83	17.71	1.23	N
1,834	2.27	288.16	1,833.69	-15.49	-8.38	16.35		Magn MWD	Phoenix Directional	0.16	17.61	-0.50	N
2,011	2.46	299.00	2,010.54	-12.55	-15.03	14.20	0.27	Magn MWD	Phoenix Directional	0.11	19.58	6.12	N
2,188	2 19	294.76	2,187.39	-9.29	-21.42	11.70		Magn MWD	Phoenix Directional	-0.15	23.35	-2.40	N
2,365	1.73	300.47	2,364.29	-6.52	-26.80	9.56		Magn MWD	Phoenix Directional	-0.26	27.58	3.23	N
2,543	3.31	291.79	2,542.11	-3.25	-33.88	7.13		Magn MWD	Phoenix Directional	0.89	34.04	-4.88	N
2,720	1.60	300.53	2,718.94	-0.10	-40.76	4.79		Magn MWD	Phoenix Directional	-0.97	40.76	4.94	N
2,898	1.91	304.44	2,896.86	2.84	-45.35	2.40		Magn MWD	Phoenix Directional	0.17	45.43	2.20	N
3,075	2,04	284 73	3,073.75	531	-50.83	0.58		Magn MWD	Phoenix Directional	0.07	51.10	-11.14	N
3,252	2.10	274.66	3,250.64	6.37	-57.10	0.24		Magn MWD	Phoenix Directional	0.03	57.46	-5,69	N
3,429	1.94	275.46	3,427.53	6.92	-63.32	0.41		Magn MWD	Phoenix Directional	-0.09	63.70	0.45	N
3,607	2.74	281.57		8.08	-70.49	0.10		Magn MWD	Phoenix Directional	0.45	70.95	3.43	N
3,784	4.11	288.51	3,782.06	10.93	-80.65	-1.57		Magn MWD	Phoenix Directional	0.77	81.38	3.92	N
3,962	5.61	285.22	3,959.42	15.23	-95.09	-4.19		Magn MWD	Phoenix Directional	0.84	96.30	-1.85	N
4,139	6.32	285.32	4,135,46	20.08	-112.84	-6.96		Magn MWD	Phoenix Directional		114.61	0.06	N
4,316	6.78	280.36	4,311.30	24.53	-132.51	-9 12		Magn MWD	Phoenix Directional		134.78	-2.80	N
4,493	6.93	278.29	4,487.04	27.95	-153.35	-10.11	0.16	Magn MWD	Phoenix Directional	80,0	155.88	-1 17	N

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| Lease | SALADO DRAW 29-26-33 FED COM | Salado Draw 29-26-33 Fed | WILDCAT (HOBBS) | Business Unit | Mid-Continent | WildCat (HOBBS) | Wi

MD (fiKB)	Incl (*)	Azm (*)	TVD (ftKB)	NS (ft)	EW (ft)	VS (ft)	DLS (*/100ft)	Method	Survey Company	Build (*/100ft)	Depart (ft)	Turn (*/100ft)	Unu: d da
4,671	6.93	277.19	4,663.74	30.84	-174.63	-10.54		Magn MWD	Phoenix Directional		177.34	-0.62	
4,742	6.96	276.75	4,734.21	31.89	-183.16	-10.59	0.09	Magn MWD	Phoenix Directional	0.04	185.91	-0.62	N
4.863	6.40	275.70	4,854 39	33.42	-197.15	-10.50	0.47	Magn MWD	Phoenix Directional	-0.48	199 96	-0.87	N
5,040	7.80	269.40	5,030.03	34 27	-218.97	-8.84		Magn MWD	Phoenix Directional	0.79	221.64	-3.56	
5,218	7.50	268 40	5,206.45	33.82	-242.66	-5.66		Magn MWD	Phoenix Directional	-0.17	245.01	-0.56	N
5,395	8.60	267 20	5,381.70	32.85	-267.43	-1.85		Magn MWD	Phoenix Directional	0.62	269.44	-0.68	N
5,572	10.00	272 80	5,556.38	32.96	-296.00	1.34		Magn MWD	Phoenix Directional	0.79	297.83	3.18	
5,749	9.50	271.80	5,730.82	34.17	-325.95	3.58		Magn MWD	Phoenix Directional	-0.28	327 73	-0.56	N
5,927	9.60	273.10	5,906.35	35 43	-355.45	5.72		Magn MWD	Phoenix Directional	0.06	357.21	0.73	N
6,104	9.60	280.10	6,080.88	38.82	-384.72	5.73		Magn MWD	Phoenix Directional	0.00	386.67	3.95	N
6,281	10.60	279.60	6,255.13	44.12	-415.30	3.98		Magn MWD	Phoenix Directional	0.56	417.64	-0.28	N
6,459	10.10	278.00	6,430.24	49.02	-446.90	2.75		Magn MWD	Phoenix Directional	-0.28	449.58	-0.90	
6,636	9.30	275.00	6,604.71	52.43	-476.52	2.77	0.53	Magn MWD	Phoenix Directional	-0.45	479.39	-1.69	N
6,813	8.60	271.70	6,779.55	54.07	-504.00	4.31	0.49	Magn MWD	Phoenix Directional	-0.40	506.89	-1.86	N
6,991	9.40	275.10	6,955.36	55.75	-531.78	5.83	0.54	Magn MWD	Phoenix Directional	0.45	534.69	1.91	N
7,169	9.50	271.90	7,130.95	57.53	-560.94	7.42		Magn MWD	Phoenix Directional	0.08	563.88	-1.80	N
7,346	9.30	272 90	7,305.57	58.74	-589.82	9.54		Magn MWD	Phoenix Directional	-0.11	592.74	0.58	N
7,524	9.70	237.80	7,481.27	51.47	-616.90	19.88	3.21	Magn MWD	Phoenix Directional	0.22	619.04	-19.72	N
7,701	10.00	269.30	7,655.79	43:33	-644.90	31.19		Magn MWD	Phoenix Directional	0.17	646.35	17.80	N
7,878	10.20	272.00	7,830.05	43.69	-675.93	34.41		Magn MWD	Phoenix Directional	0.11	677.34	1.53	N
8,056	10.50	274 00	8,005.15	45.37	-707,86	36.41	0.26	Magn MWD	Phoenix Directional	0.17	709.31	1.12	N
8,233	10.80	277.30	8,179.10	48.61	-740.40	36.95		Magn MWD	Phoenix Directional		741.99	1.86	N
8,410	9.40	275.30	8,353.36	52.05	-771.24	37.08		Magn MWD	Phoenix Directional		773.00	-1.13	N
8,587	10.60	269.80	8,527.67	53.33	-801.91	39.34		Magn MWD	Phoenix Directional		803.69	-3.11	N
8,686	9.30	270.60	8,625.18	53.38	-819.02	41.25		Magn MWD	Phoenix Directional	-1.31	820.76	0.81	N
8,743	9.10	267.80	8,681.44	53.25	-828.13	42.43	0.86	Magn MWD	Phoenix Directional	-0.35	829.84	-4.91	N
8,787	13.30	245.30	8,724.62	51.00	-836.21	45.59	13.61	MWD	Phoenix Directional	9.55	837.77	-51.14	N
8,832	18.60	233.40	8,767.88	44.55	-846.69	53.20	13.78	MWD	Phoenix Directional	11.78	847.86	-26.44	N
8,876	24.80	224.30	8,808.75	33.75	-858.78	65.33	15.99	Magn MWD	Phoenix Directional	14.09	859.44	-20.68	N
8,920	29.00	214.70	8,848.00	18.37	-871.31	82.05	13.70	Magn MWD	Phoenix Directional	9.55	871 50	-21.82	N

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Well Name
SALADO DRAW 29-26-33 FED COM
Salado Draw 29-26-33 Fed
WILDCAT (HOBBS)

Business Unit
Mid-Continent
WILDCAT (HOBBS)

Ground Elevation (it) | Original RKB (it) | Current RKB Elevation | Mud Une Elevation (it) | Waiter Depth (it)

MD (fIKB)	Incl (*)	Azm (*)	TVD (ftKB)	NS (ft)	EW (ft)	VS (h)	DLS (*/100ft)	Method	Survey Company	Build (*/100ft)	Depart (ft)	Tum (*/100ft)	Unus d dat
8,965	32.20	202.00	8,886.77	-1.75	-882.02	103.26		Magn MWD	Phoenix Directional	7.11	882.03	-28.22	N
9,009	36.40	193 60	8,923.13	-25.33	-889.49	127.55	14.36	Magn MWD	Phoenix Directional	9.55	889.85	-19.09	N
9,053	42.40	187 50	8,957.13	-52.76	-894.51	155.38	16.22	Magn MWD	Phoenix Directional	13.64	896.06	-13.86	N
9,098	48.40	183.60	8,988.72	-84.63	-897.55	187.38	14.69	Magn MWD	Phoenix Directional	13.33	901.53	-8.67	N
9,142	53.00	182.70	9,016.58	-118 62	-899.41	221.36	10.57	Magn MWD	Phoenix Directional	10.45	907.20	-2.05	N
9,186	57.50	182.90	9,041.65	-154.72	-901.17	257.42		Magn MWD	Phoenix Directional	10.23		0.45	N
9,231	61.90	183.20	9,064.35	-193.51	-903.24	296.19		Magn MWD	Phoenix Directional	9.78	923.74	0.67	N
9,275	65.40	183.40	9,083.88	-232.86	-905.51	335.55		Magn MWD	Phoenix Directional	7.95	934.98	0.45	N
9,319	69.70	182.00	9,100.68	-273.47	-907.42	376.11		Magn MWD	Phoenix Directional	9.77	947.73	-3.18	N
9,364	73.20	179.90	9,114.99	-316.12	-908.12	418.55	8.95	Magn MWD	Phoenix Directional	7.78	981.57	-4.67	N
9,406	77.10	177.10	9,125.76	-356.69	-907.05	458.73	11.30	Magn MWD	Phoenix Directional	9.29	974.66	-6.67	N
9,452	80.60	177.20	9,134.65	-401.76	-904.81	503.24	7.61	Magn MWD	Phoenix Directional	7.61	989.99	0.22	N
9,496	83.40	178.50	9,140.77	-445.30	-903,17	546.30	7.00	Magn MWD	Phoenix Directional	6.36	1,006 98	2.95	N
9,566	86.60	182 10	9,146.88	-515.01	-903.54	615.59	6.87	Magn MWD	Phoenix Directional	4.57	1,040. 01	5.14	N
9,655	85.60	182 10	9,152.93	-603.74	-906.80	704.11	1.12	Magn MWD	Phoenix Directional	-1.12	1,089. 40	0.00	N
9,743	87.30	181 40	9,158.38	-691.53	-909 48	791.62	2.09	Magn MWD	Phoenix Directional	1.93	1,142 52	-0.80	N
9,832	89.80	180.40	9,160.63	-780.48	-910,88	880 14	3.03	Magn MWD	Phoenix Directional	2.81	1,199. 52	-1.12	N
9,921	88.80	178.30	9,161.72	-869.46	-909.87	968.42	2.61	Magn MWD	Phoenix Directional	-1.12	1.258 50	-2.36	N
10,010	90.20	179.90	9,162.50	-958.44	-908.47	1.056.64	2.39	Magn MWD	Phoenix Directional	1.57	1,320. 58	1.80	N
10,098	89.40	179.90	9,162.80	-1,046 44	-908.31	1,144.04	0.91	Magn MWD	Phoenix Directional	-0.91	1,385 67	0.00	N
10,187	89.30	181.90	9,163.81	-1,135.42	-909.71	1,232 59		Magn MWD	Phoenix Directional	-0.11	1,454 91	2.25	N
10,276	87.60	177.40	9,166.22	-1,224.36	-909.17	1,320.87	5.40	Magn MWD	Phoenix Directional	-1.91	1,525. 01	-5.06	N
10,364	90.20	176 40	9,167.91	-1.312.20	-904.41	1,407.59	3.17	Magn MWD	Phoenix Directional	2.95	1,593. 69	-1.14	N
10,453	91.00	175.70	9,166.98	-1,400.99	-898.28	1,495.08	1.19	Magn MWD	Phoenix Directional	0.90	1,664 23	-0.79	N
10,542	89.50	175 40	9,166.59	-1,489.72	-891.38	1,582.42	1.72	Magn MWD	Phoenix Directional	-1.69	1,736 03	-0.34	N
10,630	88.30	175 70	9,168.28	-1,577.43	-884.55	1,668.77	1.41	Magn MWD	Phoenix Directional	-1.36	1,808. 51	0.34	N
10,719	89.50	176.60	9,169.99	-1,666.21	-878.58	1,756.27	1.69	Magn MWD	Phoenix Directional	1.35	1,883. 66	1.01	N
10,807	89.40	180.00	9,170.83	-1.754 18	-875.97	1,843.33	3,87	Magn MWD	Phoenix Directional	-0.11	1,960. 71	3.86	N
10,896	88.40	181 40	9,172.54	-1,843 13	-877.05	1,931.84	1.93	Magn MWD	Phoenix Directional	-1 12	2,041	1.57	N
10,985	92.70	182.60	9,171 69	-1.932.05	-880.16	2,020.52	5.02	Magn MWD	Phoenix Directional	4.83	2,123	1.35	N

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Well Name
SALADO DRAW 29-26-33 FED COM
Salado Draw 29-26-33 Fed
WILDCAT (HOBBS)

Business Unit
Mid-Continent
WILDCAT (HOBBS)

Ground Elevation (ft)
Ongrasi RKB (ft)
Current RKB Elevation

Mud Line Elevation (ft)
Water Depth (ft)

MD (fikB)	Inel (E)	Ann II	TVD (ftKB)	NO (E)	ENAL SEN	VS (R)	DLS (*/100ft)	Method	S	Build	Const (C)	Tum	Unu
11,073	92 00	Azm (*) 181.20	9,168.08	NS (ft) -2.019.92	EW (ft) -883.07	2,108.15		Magn MWD	Survey Company Phoenix Directional	-0.80	Depart (ft) 2,204 52	-1.59	d da
11,162	90.70	180.40	9,165.98	-2,108.89	-884.31	2,196.66	1.71	Magn MVVD	Phoenix Directional	-1.46	2,286. 79	-0.90	N
11,250	89.50	180.00	9,165.83	-2,196.89	-884.62	2,284.11		Magn MWD	Phoenix Directional	-1.38	2,368 30	-0.45	N
11,339	88.10	180 00	9,167.69	-2,285 86	-884.62	2,372.50		Magn MWD	Phoenix Directional	-1.57	2,451 07	0.00	
11,427	89.40	182.20	9,169.61	-2,373.82	-886.31	2,460.06		Magn MWD	Phoenix Directional	1.48	2,533 88	2 50	
11,516	92.40	183.50	9,168.21	-2,462.69	-890.73	2,548.85		Magn MWD	Phoenix Directional	3.37	2,618	1.46	
11,604	91.00	181.70	9,165.60	-2,550.55	-894.72	2,636.59		Magn MWD	Phoenix Directional	-1.59	2,702 93	-2.05	
11,693	91.40	181.70	9,163.74	-2.639.49	-897.38	2,725.24		Magn MWD	Phoenix Directional	0.45	2,787 86	0.00	
11,781	92.50	182 20	9,160.74	-2.727.39	-900.36	2,812,90		Magn MWD	Phoenix Directional	1.25	2,872 16	0.57	1
11,870	91.10	179.70	9,157.95	-2,816.32	-901.83	2,901 41		Magn MWD	Phoenix Directional	-1.57	2.957. 19	-2.81	1
11,959	89.50	178 70	9,157.48	-2,905.31	-900.59	2,989.66		Magn MWD	Phoenix Directional	-1.80	3.041 69	-1.12	
12.047	88.00	177.80	9,159.40	-2.993.24	-897.90	3,076.71		Magn MWD	Phoenix Directional	-1.70	3,125	-1.02	
12,136	87.60	178.20	9,162.82	-3,082 12	-894.80	3,184.64		Magn MWD	Phoenix Directional	-0.45	3,209.	0.45	
12,224	88.20	178.90	9,166.04	-3.170.04	-892.57 -889.62	3,251.71		Magn MWD	Phoenix Directional	0.68	3,293.	0.80	
12,313	88.80	175.20	9,168.37	-3,258.95	-883.80	3,427.23		Magn MWD Magn	Phoenix Directional	0.67	3,378 20 3,462	-1.80 -2.36	1
12,490	88.40	174.60	9,109.93	-3.435.38	-875.98	3.513.37		MWD Magn	Directional Phoenix	-0.91	3,462	-0.68	-
12,490	88.30	177.40	9,174.33	-3,435.36	-869.78	3,600.81		MWD Magn	Directional  Phoenix	-0.11	3,629	3.15	
12,579	86.40	178.70	9,174.33	-3,524,11	-866.78	3,667.73		MWD Magn	Directional Phoenix	-2.16	3,029	1.48	-
12,756	86.30	181.50	9,184.07	-3,700.77	-866.94	3.775.97		MWD Magn	Directional  Phoenix	-2.10	51	3.15	
12,750	88.90	183.70	9,187.80	-3.789.59	-870.97	3,775.97		MWD Magn	Directional Phoenix	2.92	96 3,888	2.47	N
12,934	90.90	184 50		-3,789.36	-877.34	3,953.57		MWD Magn	Directional Phoenix		39	0.90	
13.023	92.30	182 90	9.185.47	-3,967.13	-883.08	4.042.41		MWD Magn	Directional  Phoenix	1.57	35	-1.80	
13,111	91.00	180.20	9,182.93	-4,055.05	-885.46	4.130.02		MWD Magn	Directional Phoenix	-1.48	23	-3.07	N
13,200	90.30	179.40	9,181.92	-4,144 04	-885.15	4,218.39		MWD Magn	Directional Phoenix	-0.79	60 4.237	-0 90	
13,289	91.00	178.50	9.180.91	-4,233.02	-883.52	4,306.59		MWD Magn	Directional - Phoenix	0.79	52	-1.01	
13,378	91.80	177.50	9,178.74	-4,321.94	-880.41	4,394.56		MWD Magn	Directional Phoenix	0.90	24	-1.12	
13,467	91.00	177.90	9,176.56	-4,410.84	-876.84	4.482.45		MWD Magn	Directional Phoenix	-0.90	70	0.45	
13,555	89.00	178.50	9,176.56	-4.498.79	-874.08	4,569.50		MWD Magn	Directional Phoenix	-2.27	15	0.45	
13,555	86.70	178.50	9,179.90	4.587 69	-871.75	4.657.55		MWD Magn	Directional Phoenix	-2.58	92 4,669	0.00	
13.044	30.70	176.50	9,179,90	4.007 08	-0/1./5	4,007.00	2.58	MWD	Directional	-2.58	4,669.	0.00	-



| Well Name | SALADO DRAW 29-26-33 FED COM | Salado Draw 29-26-33 Fed | WILDCAT (HOBBS) | Mid-Continent | WildCart (HOBBS) | WildCart (HOBBS) | Water Depth (ft) | Ground Elevation (ft) | Onginal RKB (ft) | Current RKB Elevation (ft) | Water Depth (ft) | Water

MD (fixB)	Incl (*)	Azm (*)	TVD (ftKB)	NS (ft)	EW (ft)	VS (ft)	DLS (*/100ft)	Method	Survey Company	Build (*/100ft)	Depart (ft)	Tum (*/100ft)	Unu d da
13,732	87.10	179.00	9,184.66	-4,675.54	-869.83	4.744.59		Magn MWD	Phoenix Directional	0.45	4,755 77	0.57	N
13,821	86.90	178.90	9,189.32	-4.764.41	-868.20	4.832.68	0.25	Magn MWD	Phoenix Directional	-0.22	4,842 87	-0.11	N
13,909	88.40	179 40	9,192.93	-4,852.32	-866.90	4,919.85	1.80	Magn MWD	Phoenix Directional	1.70	4,929. 15	0.57	N
13,998	88.30	179.60	9,195.49	-4.941.28	-866.12	5,008.13		Magn MWD	Phoenix Directional	-0.11	5,016. 61	0.22	N
14,087	91.00	181 30	9,196.03	-5,030.26	-866.82	5,098.61		Magn MVVD	Phoenix Directional	3.03	5.104 40	1.91	N
14,175	90.00	179 30	9,195.27	-5.118.25	-867.28	5,184.06		Magn MWD	Phoenix Directional	-1.14	5,191. 21	-2.27	1
14,264	89.30	178.00	9,195.81	-5.207.22	-865.19	5,272.20		Magn MWD	Phoenix Directional	-0.79	5,278. 61	-1.46	1
14,352	88.90	175.60	9,197.19	-5.295.07	-860.27	5,358.90		Magn MWD	Phoenix Directional	-0.45	5,364 50	-2.73	
14,441	87.80	173.80	9,199.75	-5,383.65	-852.06	5,445.94		Magn MWD	Phoenix Directional	-1.24	5,450 66	-2.02	1
14,529	89.30	176.40	9,201.98	-5.471.29	-844.54	5,532 13		Magn MWD	Phoenix Directional	1.70	5,536 09	2,95	1
14,618	90.10	177 80	9,202.45	-5,560.17	-840.04	5,619.91		Magn MWD	Phoenix Directional	0.90	5,623. 27	1.57	1
14,707	91.00	178.90	9,201.59	-5,649.13	-837.48	5,707.98		Magn MWD	Phoenix Directional	1.01	5,710. 87	1.24	1
14,798	91.60	177.80	9,199.57	-5,738.07	-834.92	5,796.03		Magn MWD	Phoenix Directional	0.67	5,798 49	-1.24	1
14,884	89.40	177.90	9,198.81	-5,825.99	-831.62	5,883.00		Magn MWD	Phoenix Directional	-2.50	5,885 05	0.11	1
14,973	88.40	180.60	9,200.52	-5,914.96	-830.45	5,971.24		Magn MWD	Phoenix Directional	-1.12	5,972 97	3.03	1
15,061	90.20	182.20	9,201.59	-6,002 92	-832.60	8,058.86		Magn MWD	Phoenix Directional	2.05	6,060. 39	1.82	1
15,150	90.20	180.40	9,201.28	-6,091 89	-834.62	6,147.47	2 02	Magn MWD	Phoenix Directional	0.00	6,148 80	-2.02	1
15,239	91.00	181.20	9,200.35	-6,180.88	-835.86	6,236.01		Magn MWD	Phoenix Directional	0.90	6,237 14	0.90	1
15,327	91.50	181.40	9,198.43	-6,268.84	-837.86	6.323.61	0.61	Magn MWD	Phoenix Directional	0.57	6,324 58	0.23	1
15,416	92.00	181.20	9,195.71	-6,357.77	-839.88	6,412.19	0.61	Magn MWD	Phoenix Directional	0.56	6,413. 01	-0.22	1
15,504	87.30	179.70	9,196.25	-6,445.74	-840.57	6,499.65		Magn MWD	Phoenix Directional	-5.34	6,500. 32	-1.70	1
15,593	88.20	181.50	9,199.74	-6,534.66	-841.50	6,588.09	2.28	Magn MWD	Phoenix Directional	1.01	6,588 62	2.02	1
15,681	89.20	182 00	9,201.74	-6,622.60	-844.19	6,675.75		Magn MWD	Phoenix Directional	1.14	6.676. 18	0.57	1
15,770	90.20	182.90	9,202.20	-6,711,51	-847.99	6.764.51	1.51	Magn MWD	Phoenix Directional	1.12	6,764 87	1.01	ı
15,859	89.70	182 40	9,202 28	-6,800.42	-852.11	6,853.30		Magn MVVD	Phoenix Directional	-0.56	6,853. 59	-0.56	١
15,947	89.20	181.40	9,203.13	-6,888.36	-855.02	6,941.00	1.27	Magn MWD	Phoenix Directional	-0.57	6,941	-1.14	1
16,036	91.30	183.00	9,202.74	-6,977.29	-858.44	7,029.72	2.97	Magn MWD	Phoenix Directional	2,36	7,029.	1.80	N
16,125	89.10	181.00	9,202.43	-7,066.22	-861.55	7.118.42	3.34	Magn MWD	Phoenix Directional	-2.47	7,118 55	-2.25	1
16,214	90.90	185.80	9,202.43	-7,155.04	-866.82	7.207 26	5.76	Magn MWD	Phoenix Directional	2.02	7,207	5.39	1
16,303	89.90	183.70	9,201,81	-7.243.72	-874.19	7.296.20	2.61	Magn MWD	Phoenix Directional	-1 12	7,296	-2.38	N

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Well Name
SALADO DRAW 29-26-33 FED COM
Salado Draw 29-26-33 Fed
WILDCAT (HOBBS)

Business Unit
Mid-Continent
WILDCAT (HOBBS)

Ground Elevation (ft)

Onginal RKB (ft)

Current RKB Elevation

Mud Line Elevation (ft)

Water Depth (ft)

MD (ftKB)	Incl (*)	Azm (°)	TVD (ftKB)	NS (ft)	EW (ft)	VS (ft)	DLS (*/100ft)	Method	Survey Company	Build (*/100ft)	Depart (ft)	Turn (*/100ft)	Unus d da
18,391	88.90	182.00	9,202.73	-7,331 60	-878.57	7,384.00	2.24	Magn MWD	Phoenix Directional	-1.14	7,384. 06	-1.93	N
16,487	87.70	180.00	9,205.58	-7,427.54	-880.24	7,479.49	2.43	Magn MWD	Phoenix Directional	-1.25	7.479 52	-2.08	N
16,545	87.70	180.00	9,207.90	-7.485.49	-880.24	7,537.06	0.00	Extrap.	Phoenix Directional	0.00	7.537. 07	0.00	N

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9,710

9,804

90.60

90.20

178 50

177.70

9,152.96

9,152 31

-718 23

-B12 17

679.99

683.10

#### **Directional Survey**

Well Name
SALADO DRAW 29-26-33 FED COM
Salado Draw 29-26-33 Fed
WILDCAT (HOBBS)

Business Unit
Mid-Continent
O01H

Ground Elevation (ft) Original RKB (ft)
Current RKB Elevation

Mud Line Elevation (ft) Water Depth (ft)

Min Kick Off Depth (ftKB) Vertical Section Direction (\*) Original Hole 9,328.0 185.47 ST1 Easting (X) (ft) **UTM Grid Zone** Northing (Y) (ft) MWD 12/11/2015 N Inclination Tie In (\*) 9.60 MD Tie In (ftKB TVDTie in (RKB) Azimuth Tie In (\*) 274.80 NSTIe in (ft) EWTie In (ft) 84.70 8,161.00 8,108.27 730 61 **Survey Data** Build (\*/100ft) Unuse Tum (\*/100ft) Incl (") DLS (\*/100ft) Survey Company TVD (ftKB) EW (ft) VS (ft) Method MD (fiKB) Azm (\*) NS (ft) Depart (ft) d data 274.80 8,108.27 8,161 9.60 64.70 730.61 -134.05 0.00 Magn Phoenix 0.00 733.47 0.00 N MWD Directional 8,261 13.00 254.30 8 206 36 62 35 711.46 -129 89 5.21 Magn 3.40 714.19 -20.50 Phoenix N MWD Directional 8.338 13.70 244.30 8,281.28 56.05 694.90 -122 04 3.13 Magn Phoenix 0.91 697.16 -12.99 N MWD Directional 15.80 8,367.37 675.86 108 23 8,427 231.90 44.00 4.25 Magn Phoenix 2.36 677.30 -13.93 N MWD Directional 14.80 222.70 8.453.23 28.17 658.62 -90.82 8.516 2.95 Magn Phoenix -1.12 659.22 -10.34 N MWD Directional 8,604 15.20 208 90 8,538.25 9 80 645.42 -71 28 4.07 Magn Phoenix 0.45 645.49 -15.68 N MWD Directional 8,693 13.90 195.60 8,624.42 -10.71 636 90 50.05 4.02 Magn Phoenix 636.99 -14.94 -1.46 N MWD Directional 8.781 13 30 183.20 8.709.97 -31.01 633.49 -29.52 3 38 Magn Phoenix -0.68 634.25 -14.09 N MWD Directional 8,826 13.40 8,753.76 -41.38 632.97 -19.14 0.38 182.60 Magn Phoenix 0.22 634.32 -1.33 N MWD Directional Magn 8.870 16.60 179.90 8,796.25 -52 76 632.75 -7 79 7 44 Phoenix 7 27 634.94 -6.14 N Directional 8,914 21 20 176.50 8,837.87 -87.00 633.24 6.33 10.75 Magn Phoenix 10.45 636.78 -7.73 N MWD Directional 8.959 24.80 172 20 8,879.29 -84.48 635.02 23.56 Phoenix 8.00 640.62 -9.56 8.82 Magn N MWD Directional 9.003 169.90 8,918.54 -104.10 638.14 42.79 Phoenix 646.57 28 90 9.61 Magn 9.32 -5.23 N MWD Directional 9,050 33.20 169.10 8,958.80 -127 92 642 57 66.09 9.19 Magn Phoenix 9 15 855.18 1.70 N MWD Directional 90.86 9.094 38 30 170.90 8.994 49 -153 23 647.00 11.83 Magn Phoenix 11.59 664.90 4.09 N MWD Directional 9,138 43.90 173 10 9,027.64 -181.87 651.00 118 98 13.14 Magn Phoenix 12 73 675 92 5.00 N MWD Directional 9,183 50.30 174.50 9,058.26 -214.62 654.53 151 25 14 40 Magn Phoenix 14.22 688.82 3.11 N MWD Directional 13.46 Magn MWD 9,227 56.10 176.00 9.084.60 -249.72 657.43 185.91 Phoenix 13.18 703.26 3.41 N Directional 68.20 9,106.82 -287.61 659.39 223 44 16.61 178.00 Magn Phoenix 16 14 719.39 4.55 9,271 N MWD Directional Magn MWD 9.332 70.30 178.40 9.130.89 -343.59 661.15 279.00 11.65 Phoenix 11.64 745.10 0.66 N Directional 308.27 9.363 74.40 177.10 9.140.28 -373.10 662 31 13.82 Magn Phoenix 13.23 760 17 -4.19 N MWD Directional 9,395 79.50 175 80 9.147.51 -404 20 664.24 339.05 16.42 Phoenix Magn 15.94 777.56 -4.06 N MWD Directional Magn MVVD 9.426 83 70 175.00 9.152.04 -434.77 666.71 369.23 13.79 Phoenix 13.55 795.94 -2.58 N Directional 9 521 91.70 9,155.85 -529.38 462.78 Magn MWD 177.00 673.32 Phoenix 8.42 856.50 8.68 2.11 N Directional 9.615 90.60 178 20 9,153.98 -623 27 555.88 677.25 173 Magn Phoenix -1.17 920.40 1 28 N

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650 14

743.36

MWD

Magn

MWD

MWD

0.32

0.95 Magn

Directional

Directional

Directional

Phoenix

Phoenix

Report Printed: 8/15/2016

0.32 N

-0.85

N

0.00 989.06

1,061

25

0.43



Well Name
SALADO DRAW 29-26-33 FED COM
Salado Draw 29-26-33 Fed
WILDCAT (HOBBS)

Business Unit
Mid-Continent

Ground Elevation (ft) Original RKB (ft) | Current RRB Elevation | Mud Line Elevation (ft) | Water Depth (ft)

MD (AVE)	tool (P)		THE COURSE	NO /5:	FIAL (A)	140 441	DI C (FILEDO)	140000		Build	Denot in	Turn	Unus
9,899	90.40	Azm (*) 178.00	9,151.81	-907 10	EW (ft) 686.67	837.52	DLS (*/100ft) 0.38	Method Magn MWD	Survey Company Phoenix Directional	(*/100ft) 0.21	Depart (ft) 1,137. 70	(*/100h) 0.32	d da
9,993	89.20	178.60	9,152.14	-1,001.06	689.46	930.78	1.43	Magn MWD	Phoenix Directional	-1.28	1,215	0.64	N
10,087	89.40	178.70	9,153.29	-1,095.03	691.67	1,024.11	0.24	Magn MWD	Phoenix Directional	0.21	1,295	0.11	N
10,182	90.50	178.00	9,153.37	-1,189.99	694.41	1.118.37	1.37	Magn MWD	Phoenix Directional	1.16	1.377	-0.74	N
10,276	89.20	178.50	9,153.62	-1,283.94	697.28	1,211.63	1.48	Magn MWD	Phoenix Directional	-1.38	1,461	0.53	N
10,371	88.10	179.30	9,155.85	-1,378.89	699.10	1,305.97	1.43	Magn MWD	Phoenix Directional	-1.16	1,545.	0.84	N
10,465	89.10	178.70	9,158.15	-1,472.85	700.74	1,399.34	1.24	Magn MWD	Phoenix Directional	1.06	1,831. 05	-0.64	N
10,560	90.70	179.30	9,158.32	-1,567.83	702.40	1,493.74	1.80	Magn MWD	Phoenix Directional	1.68	1,717. 98	0.63	N
10,655	89.50	179.90	9,158.15	-1,662.83	703.06	1,588.24		Magn MWD	Phoenix Directional	-1.26	1,805. 35	0.63	N
10,749	87.80	178.20	9,160.37	-1,756.78	704.62	1,681.61		Magn MWD	Phoenix Directional	-1.81	1,892 82	-1.81	N
10,844	90.50	179.30	9,161.77	-1.851.74	706 69	1,775.94		Magn MWD	Phoenix Directional	2.84	1,982 00	1.16	
10,938	90.80	178.50	9,160.71	-1,945.71	708.49	1,869.32	0.91	Magn MWD	Phoenix Directional	0.32	2.070 69	-0.85	
11,033	89.60	179.70	9,160.38	-2,040.70	709.99	1,963.73	1.79	Magn MWD	Phoenix Directional	-1.26	2,160 68	1.26	N
11,128	89.00	180.10	9,161.54	-2,135.69	710.15	2.058.27		Magn MWD	Phoenix Directional	-0.63	2,250 66	0.42	N
11,222	89,70	180.30	9,162.60	-2,229.68	709.82	2,151.87	0.77	Magn MWD	Phoenix Directional	0.74	2,339. 94	0.21	N
11,317	88.80	180.00	9,163.85	-2,324.67	709.58	2.246.45	1.00	Magn MWD	Phoenix Directional	-0.95	2,430 58	-0.32	N
11,412	90.00	180.20	9,164.84	-2,419.67	709.41	2.341.02	1.28	Magn MWD	Phoenix Directional	1.26	2,521 52	0.21	N
11,506	89.20	178.40	9,165.50	-2,513.65	710.56	2,434.47		Magn MWD	Phoenix Directional	-0.85	2,612 15	-1.91	N
11,601	89.50	178.40	9,166.58	-2,608.61	713.21	2.528.74	0.32	Magn MWD	Phoenix Directional	0.32	2,704. 35	0.00	N
11,695	88.70	179.50	9,168.05	-2,702.58	714.93	2.622.12		Magn MWD	Phoenix Directional	-0.85	2,795. 54	1,17	N
11,790	89,10	179.10	9,169.88	-2,797.55	716.09	2,716.55		Magn MWD	Phoenix Directional	0.42	2,887 75	-0.42	N
11,884	90.30	178.20			718.31	2.809.88		Magn MWD	Phoenix Directional	1.28	2,979. 41	-0.96	
11,978	90.80	179.30	9,169.47	-2,985.50	720.36	2.903.23		Magn MWD	Phoenix Directional	0.53	3,071	1.17	N
12,073	90.40	180 40	9,168.47	-3,080.49	720.61	2,997.77	1.23	Magn MWD	Phoenix Directional	-0.42	3,163. 65	1.16	N
12,167	89.20	180.70	9,168.80	-3.174.48	719.70	3.091.42	1.32	Magn MWD	Phoenix Directional	-1.28	3.255 04	0.32	N
12,262	88.80	180.70	9,170.46	-3,269.46	718.54	3.186.08		Magn MWD	Phoenix Directional	-0.42	3,347.	0,00	N
12,356	89.20	180.60	9,172.10	-3,363,44	717.48	3,279.73		Magn MWD	Phoenix Directional	0.43	3,439	-0.11	N
12,451	88.60	180.10	9,173.92	-3,458.42	716 90	3,374.33	0.82	Magn MWD	Phoenix Directional	-0.63	3,531. 94	-0.53	N
12,545	89.00	178.90	9,175.89	-3,552 39	717.72	3,467.80	1.35	Magn MVD	Phoenix Directional	0.43	3,624.	-1.28	N
12,640	91.60	177 80	9,175.39	-3.647.34	720.45	3,562.06	2.97	Magn MWD	Phoenix Directional	2.74	3,717.	-1.16	N

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Well Name
SALADO DRAW 29-26-33 FED COM
Salado Draw 29-26-33 Fed
WILDCAT (HOBBS)

Business Unit
Mid-Continent
WILDCAT (HOBBS)

Ground Elevation (ft) | Original RKB (ft) | Current RKB Elevation | (ft) | Water Depth (ft) | Water Depth (ft) | Water Depth (ft) | Current RKB Elevation (ft) | Water Depth (ft) | Water Depth

MD (BVD)	total (fr		D. D. Court	NO.T	EW/E	140 (0)	DLS (*/100ft)			Build		Turn	Unu
12,734	96.20	Azm (*) 179,30	9,169.00	NS (R) -3,741 07	722.83	VS (ft) 3,655.13		Method Magn MWD	Phoenix Directional	(*/100ft) 4.89	3,810. 26	(*/100ft) 1.60	d di
12,828	100.50	182.90	9,155.35	-3,834.02	721.06	3.747.82	5.94	Magn MWD	Phoenix Directional	4.57	3,901.	3.83	N
12,922	97.40	180 40	9,140.72	-3,926.81	718.40	3,840.45	4.22	Magn. MWD	Phoenix Directional	-3.30	3.991	-2.66	1
13,017	96.00	180.60	9,129.64	-4,021.16	717.57	3,934.45	1.49	Magn MWD	Phoenix Directional	-1.47	4,084	0.21	1
13,111	92.50	180 40	9,122.68	-4,114 88	716.75	4.027.82	3.73	Magn MWD	Phoenix Directional	-3.72	4.176. 84	-0.21	1
13,206	90.80	180.30	9,119.94	-4,209.84	716.17	4.122.40	1.79	Magn MWD	Phoenix Directional	-1.79	4,270 32	-0.11	1
13,300	89.80	181.70	9,119.45	-4,303.82	714.53	4.216.11		Magn MWD	Phoenix Directional	-1.06	4,362 73	1.49	1
13,395	87.80	180.60	9,121.44	-4,398.77	712.63	4,310.81		Magn MWD	Phoenix Directional	-2.11	4,456. 12	-1.16	1
13,489	87.70	180.70	9,125.13	-4,492.69	711.56	4,404.41		Magn MWD	Phoenix Directional	-0.11	4,548 69	0.11	1
13,584	85.60	180.80	9,130.68	-4,587 52	710.32	4,498.92		Magn MWD	Phoenix Directional	-2.21	4.642 18	0.11	
13,678	85,50	180.60	9,137.97	-4,681.23	709.18	4.592.31		Magn MWD	Phoenix Directional	-0.11	4,734 64	-0.21	
13,773	87.90	180.60	9,143.44	-4,776.06	708.18	4.686.80		Magn MWD	Phoenix Directional	2.53	4.828.	0.00	
13,867	88.00	180.70	9,146.80	-4,869.99	707.12	4.780 41		Magn MWD	Phoenix Directional	0.11	4,921 06	0.11	
13,962	85.80	178.50	9,151.94	-4,964.84	707.78	4,874.76		Magn MWD	Phoenix Directional	-2.32	5,015. 03	-2.32	
14,056	87.00	177.70	9,157.84	-5,058.60	710.89	4,967.80		Magn MWD	Phoenix Directional	1.28	5,108 31	-0.85	1
14,151	87.70	177 60	9,162.24	-5,153.42	714.78	5,061 81		Magn MWD	Phoenix Directional	0.74	5,202 75	-0.11	1
14,246	86.60	176.30	9,166.96	-5,248 16	719.83	5,155.65		Magn MWD	Phoenix Directional	-1.16	5,297	-1.37	1
14,340	90.00	176,80	9,169.75	-5,341.94	725.48	5,248.45		Magn MWD	Phoenix Directional	3.62	5,390. 97	0.53	
14,435	91.50	178.50	9,168.50	-5,436.84	729.37	5,342.58		Magn MWD	Phoenix Directional	1.58	5,485. 55	1.79	1
14,529	91.80	179,40	9,165.80	-5,530.79	731.10	5,435.91		Magn MWD	Phoenix Directional	0.32	5,578. 90	0.96	1
14,624	91.50	178.90	9,163.06	-5,625.74	732.51	5,530.29		Magn MWD	Phoenix Directional	-0.32	5,673.	-0.53	1
14,719	89.20	179.30		-5,720 72	734.00	5,624,70		Magn MWD	Pheenix Directional		5,767. 61	0.42	
14,814	90.20	179.30	9,162.98	-5,815.71	735.16	5,719 14		Magn MWD	Phoenix Directional	1.05	5,861. 99	0.00	N
14,908	88.00	179.70	9,164.46	-5,909.69	735.98	5,812.62		Magn MWD	Phoenix Directional	-2.34	5,955 34	0.43	N
15,003	89.80	179.50	9,166.28	-6,004 66	736.64	5,907.10		Magn MWD	Phoenix Directional	1.89	6.049. 68	-0.21	N
15.097	88.20	178.50	9,167.92	-6,098.63	738.28	6,000.48		Magn MWD	Phoenix Directional	-1.70	6,143. 15	-1.06	-
15,191	87.50	178.10	9,171.45	-6,192 52	741.07	6,093.68		Magn MWĐ	Phoenix Directional	-0.74	6,236. 71	-0.43	-
15.286	90 40	179.00	9,173.19	-6,287.46	743.47	6,187.96		Magn MWD	Phoenix Directional	3.05	27	0.95	1
15,381	91.60	178.70	9,171.53	-6,382 43	745 38	6.282.31		Magn MWD	Phoenix Directional	1.26	6,425. 80	-0.32	١
15,475	93.20	179.80	9,167.59	-6,476.33	746.61	6,375.67	2.06	Magn MWD	Phoenix Directional	1.70	6,519 23	1.17	N

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West Name
SALADO DRAW 29-26-33 FED COM
Salado Draw 29-26-33 Fed WILDCAT (HOBBS)

Business Unit
Mid-Continent

With Decay (ft)

Ground Blevation (ft)

Current RKB Elevation

Mud Line Elevation (ft)

Water Depth (ft)

MD (ftKB)	Incl (°)	Azm (*)	TVD (ftKB)	NS (ft)	EW (ft)	VS (ft)	DLS (*/100ft)	Method	Survey Company	Build ("/100ft)	Depart (ft)	Turn (*/100ft)	Unuse d data
15,569	88.80	178.80	9,165.95	-6,570 29	747.78	6,469.09	4.80	Magn MWD	Phoenix Directional	-4.68	6,612 70	-1.06	N
15,664	89.30	178 70	9,167.53	-6,665.25	749.83	6,563.42	0.54	Magn MWD	Phoenix Directional	0.53	6,707. 30	-0.11	N
15,758	90.50	178.50	9,167.69	-6,759 22	752.12	6,656 75	1.29	Magn MWD	Phoenix Directional	1.28	6,800 94	-0.21	N
15,853	92.40	180.30	9,165.29	-6,854 18	753 12	6,751 17	2.75	Magn MWD	Phoenix Directional	2.00	6,895 43	1.89	N
15,947	87.60	178.50	9,165.29	-6,948.14	754.10	6,844.62	5.45	Magn MWD	Phoenix Directional	-5.11	6.988	-1.91	N
16.042	89.20	180.00	9,167.94	-7,043.09	755.35	6,939.01	2.31	Magn MWD	Phoenix Directional	1.68	7,083. 48	1.58	N
16,136	89.90	178.90	9,168.68	-7,137 08	756.25	7,032 49	1.39	Magn MWD	Phoenix Directional	0.74	7,177	-1.17	N
16,231	89.90	179.10	9,168.84	-7,232.07	757.91	7.126.89	0.21	Magn MWD	Phoenix Directional	0.00	7,271. 67	0.21	N
16,325	91.90	178.30	9,167.37	-7,326.02	760.04	7,220.21	2.29	Magn MWD	Phoenix Directional	2.13	7,365. 34	-0.85	N
16,417	87.60	175.00	9,167.77	-7,417.83	765.41	7,311.09	5.89	Magn MWD	Phoenix Directional	-4.67	7,457	-3,59	N
16,467	87.60	175.00	9,169.86	-7,467.60	769.77	7,360.21	0.00	Magn MWD	Phoenix Directional	0.00	7,507 17	0.00	N



### **Casing Summary**

Well Name
SALADO DRAW 29-26-33 FED COM
Salado Draw 29-26-33 Fed
WILDCAT (HOBBS)

Business Unit
Mid-Continent

Only
Ground Elevation (ft)
Current RKB Elevation

Mud Line Elevation (ft)
Water Depth (ft)

	Depth (MD) (MKB)	Set Tension	n (kips)		lominal OD (in)			ntralizers		Scratchers	
860				13 3/8		12.563	Top Depth	Btm Depth			P Collapse
Jts	Item Des	OD (in)	ID (in)	Wt (lb/ft)	Grade	Top Thread	(MD) (ftKB)	(MD) (RKB)	Len (ft)	P Burst (psi)	(psi)
1	Casing Joint	13 3/8	12.715	48.00	A CONTRACTOR OF THE PARTY AND	ST&C	32	32	0.00		740.
1	Wellhead	13 3/8	12.715	48.00	THE RESIDENCE OF THE PARTY OF T	ST&C	32	37	4.63		740.
1	Pup Joint	13 3/8	12 715	48.00	Management of the Control of the Con	ST&C	37	41	4.11	10.00	740.
1	Casing Joint	13 3/8	12.715	48.00	H-40	ST&C	41	80	39.07	Esperiment.	740.
1	Casing Joint	13 3/8	12.715	48.00	H-40	ST&C	80	118	37.88		740.
18	Casing Joint	13 3/8	12.715	48.00	H-40	ST&C	118	820	702.16	No. of the last	740.
1	Float Collar	13 3/8	12.715	48.00	H-40	ST&C	820	822	1.37	12 TO 18 OF	740.
1	Casing Joint	13 3/8	12 715	48.00	H-40	ST&C	822	858	36.95		740.
1	Float Shoe	13 3/8	12.719	48.00	H-40		858	860	1.54	1,730.0	740.
to	rmediate Casing 1, P	lanned2-N 4 70	14KB								
I D	Pepth (MD) (ftKB)	Set Tension		String N	ominal OD (in)	String Min Drift (in)	Ce	ntralizers		Scratchers	
,79	91			9 5/8		8.688	33				50-1
Its	Item Des	OD (in)	ID (in)	Wt (lb/ft)	Grade	Top Thread	Top Depth (MD) (ftKB)	Btm Depth (MD) (ftKB)	Len (ft)	P Burst (psi)	P Collapse (psi)
1	Casing Joint	9 5/8	8.844	40.00	HCK-55	LT&C	33	33	0.00	3,950.0	4,230.
1	Landing jt	9 5/8	8.844	40.00	HCK-55	LT&C	33	33	0.00	3,950.0	4,230
1	Hanger + pup	9 5/8	8.844	40.00	HCK-55	LT&C	33	38	4.33	3,950.0	4,230
2	Casing Joint	9 5/8	8.844	40.00	HCK-55	LT&C	38	109	70.84	3,950.0	4,230
11	Casing Joint	9 5/8	8.844	A CONTRACTOR OF THE PARTY OF TH	HCK-55	LT&C	109	4,635	4,526.09	3,950.0	4,230
2	Casing Joint	9 5/8	8.844	40.00	HCK-55	LT&C	4.635	4,713	78.11	3,950.0	4,230
1	Float Collar	9 5/8	8.844		HCK-55	LT&C	4,713	4,714	1.22	3,950.0	4,230
2	Casing Joint	9 5/8	8.844	AND REAL PROPERTY AND REAL PROPERTY.	HCK-55	LT&C	4.714	4,789	75.34	3,950.0	4,230
1		9 5/8	8 884		HCK-55	LT&C	4,789	4,791	1.64		-,,
ril	ling Liner 1, Planned?	2.N. 9.318#KB	a de la constanta								
	Depth (MD) (fixB)	Set Tension	/kins\	String N	ominal OD (in)	String Min Drift (in)	ICer	ntralizers		Scratchers	
1,3				7 5/8		6.750	0			The Edition	
Its	Item Des	OD (in)	ID (in)	Wt (lb/ft)	Grade	Top Thread	Top Depth (MD) (ftKB)	Btm Depth (MD) (ftKB)	Len (ft)	P Burst (psi)	P Collapse (psi)
	Casing Joint		6.875			Top IIIIono					
-		7 5/8	0.0/01	29.70	IP-110	TSH513	AND DESCRIPTION OF THE PERSON NAMED IN COLUMN 2 IS NOT THE PERSON	NAME OF TAXABLE PARTY.	0.00	OF REAL PROPERTY AND PERSONS ASSESSED.	5.350.
-	A CONTRACTOR OF THE PROPERTY O		CONTRACTOR DESCRIPTION OF THE		P-110 S-135	TSH513	4,474	4,474	0.00	9,470.0	
-	50 Stds 5"DP	5	3.500	19.50	S-135	120,7476,000,1490	4,474 4,474	4,474	0.00	9,470.0 9,470.0	5,350.
1 1	50 Stds 5"DP Hanger Assm	5 7 5/8	3.500 6.875	19.50 29.70	S-135 P-110	TSH513	4,474 4,474 4,474	4,474 4,474 4,505	0.00 0.00 30.41	9,470.0 9,470.0 9,470.0	5,350 5,350
1 1	50 Stds 5"DP Hanger Assm	5	3.500	19.50 29.70	S-135	120,7476,000,1490	4,474 4,474	4,474	0.00	9,470.0 9,470.0	5,350 5,350
1 1	50 Stds 5"DP Hanger Assm Casing Joint	5 7 5/8 7 5/8	3.500 6.875 6.875	19.50 29.70 29.70	S-135 P-110 P-110	TSH513 TSH513	4,474 4,474 4,474 4,505	4,474 4,474 4,505 9,176	0.00 0.00 30.41 4,670.92	9,470.0 9,470.0 9,470.0 9,470.0	5,350. 5,350. 5,350.
1 1	50 Stds 5"DP Hanger Assm Casing Joint Landing Collar	5 7 5/8 7 5/8 7 5/8	3.500 6.875 6.875 6.875	19.50 29.70 29.70 29.70	S-135 P-110 P-110	TSH513 TSH513 TSH513	4,474 4,474 4,474 4,505 9,176	4,474 4,474 4,505 9,176	0.00 0.00 30.41 4,670.92	9,470.0 9,470.0 9,470.0 9,470.0 9,470.0	5,350. 5,350. 5,350.
1 1	50 Stds 5"DP Hanger Assm Casing Joint Landing Collar Casing Joint	5 7 5/8 7 5/8 7 5/8 7 5/8	3.500 6.875 6.875 6.875 6.875	19.50 29.70 29.70 29.70 29.70	S-135 P-110 P-110 P-110 P-110	TSH513 TSH513 TSH513 TSH513	4,474 4,474 4,474 4,505 9,176 9,178	4,474 4,474 4,505 9,176 9,178 9,225	0.00 0.00 30.41 4,670.92 2.40 46.31	9,470.0 9,470.0 9,470.0 9,470.0 9,470.0 9,470.0	5,350 5,350 5,350 5,350 5,350
1 1 1 1 1 1 1 1	50 Stds 5"DP Hanger Assm Casing Joint Landing Collar Casing Joint Float Collar	7 5/8 7 5/8 7 5/8 7 5/8 7 5/8 7 5/8	3.500 6.875 6.875 6.875 6.875 6.875	19.50 29.70 29.70 29.70 29.70 29.70	S-135 P-110 P-110 P-110 P-110 P-110	TSH513 TSH513 TSH513 TSH513 TSH513	4,474 4,474 4,474 4,505 9,176 9,178 9,225	4,474 4,474 4,505 9,176 9,178 9,225 9,226	0.00 0.00 30.41 4,670.92 2.40 46.31 1.67	9,470.0 9,470.0 9,470.0 9,470.0 9,470.0 9,470.0 9,470.0	5,350 5,350 5,350 5,350 5,350 5,350
1 10 9 1 1 1	50 Stds 5"DP Hanger Assm Casing Joint Landing Collar Casing Joint Float Collar Casing Joint	7 5/8 7 5/8 7 5/8 7 5/8 7 5/8 7 5/8 7 5/8	3.500 6.875 6.875 8.875 6.875 6.875 6.875	19.50 29.70 29.70 29.70 29.70 29.70 29.70 29.70	S-135 P-110 P-110 P-110 P-110 P-110 P-110	TSH513 TSH513 TSH513 TSH513 TSH513 TSH513	4,474 4,474 4,474 4,505 9,176 9,178 9,225 9,226	4,474 4,474 4,505 9,176 9,178 9,225 9,226 9,316	0 00 0.00 30 41 4,670 92 2 40 46 31 1 67 89 33	9,470.0 9,470.0 9,470.0 9,470.0 9,470.0 9,470.0	5,350. 5,350. 5,350. 5,350. 5,350. 5,350.
1 1 1 1 1 2 1	50 Stds 5"DP Hanger Assm Casing Joint Landing Collar Casing Joint Float Collar Casing Joint Guide Shoe	5 7 5/8 7 5/8 7 5/8 7 5/8 7 5/8 7 5/8 7 5/8 7 5/8	3.500 6.875 6.875 8.875 6.875 6.875 6.875 6.875 6.800	19.50 29.70 29.70 29.70 29.70 29.70 29.70 29.70	S-135 P-110 P-110 P-110 P-110 P-110	TSH513 TSH513 TSH513 TSH513 TSH513	4,474 4,474 4,474 4,505 9,176 9,178 9,225	4,474 4,474 4,505 9,176 9,178 9,225 9,226	0.00 0.00 30.41 4,670.92 2.40 46.31 1.67	9,470.0 9,470.0 9,470.0 9,470.0 9,470.0 9,470.0 9,470.0	5,350. 5,350. 5,350. 5,350. 5,350. 5,350.
1 1 10 9 1 1 1 2	50 Stds 5"DP Hanger Assm Casing Joint Landing Collar Casing Joint Float Collar Casing Joint Guide Shoe duction Casing, Plant	5 7 5/8 7 5/8 7 5/8 7 5/8 7 5/8 7 5/8 7 5/8 7 5/8 7 5/8 7 5/8 7 5/8 7 5/8 16,452	3.500 6.875 6.875 6.875 6.875 6.875 6.875 6.875	19.50 29.70 29.70 29.70 29.70 29.70 29.70 29.70	S-135 P-110 P-110 P-110 P-110 P-110 P-110 P-110	TSH513 TSH513 TSH513 TSH513 TSH513 TSH513 TSH513	4,474 4,474 4,474 4,505 9,176 9,178 9,225 9,226 9,318	4,474 4,474 4,505 9,176 9,178 9,225 9,226 9,318	0.00 0.00 30.41 4,670.92 2.40 46.31 1.67 89.33 2.48	9,470.0 9,470.0 9,470.0 9,470.0 9,470.0 9,470.0 9,470.0 9,470.0	5,350. 5,350. 5,350. 5,350. 5,350. 5,350. 5,350. 5,350.
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	50 Stds 5"DP Hanger Assm Casing Joint Landing Collar Casing Joint Float Collar Casing Joint Guide Shoe	5 7 5/8 7 5/8 7 5/8 7 5/8 7 5/8 7 5/8 7 5/8 7 5/8	3.500 6.875 6.875 6.875 6.875 6.875 6.875 6.875	19.50 29.70 29.70 29.70 29.70 29.70 29.70 29.70	S-135 P-110 P-110 P-110 P-110 P-110 P-110	TSH513 TSH513 TSH513 TSH513 TSH513 TSH513	4,474 4,474 4,474 4,505 9,176 9,178 9,225 9,226 9,316	4,474 4,474 4,505 9,176 9,178 9,225 9,226 9,316 9,318	0.00 0.00 30.41 4,670.92 2.40 46.31 1.67 89.33 2.48	9,470.0 9,470.0 9,470.0 9,470.0 9,470.0 9,470.0 9,470.0	5,350. 5,350. 5,350. 5,350. 5,350. 5,350.
1 1 1 1 1 2 1	50 Stds 5"DP Hanger Assm Casing Joint Landing Collar Casing Joint Float Collar Casing Joint Guide Shoe duction Casing, Plant Joseph (MD) (fix8)	5 7 5/8 7 5/	3.500 6.875 6.875 6.875 6.875 6.875 6.875 6.875 6.800	19.50 29.70 29.70 29.70 29.70 29.70 29.70 String N	S-135 P-110 P-110 P-110 P-110 P-110 P-110 P-110 P-110	TSH513 TSH513 TSH513 TSH513 TSH513 TSH513 TSH513 String Min Drift (in) 4.156	4,474 4,474 4,474 4,505 9,176 9,178 9,225 9,226 9,316	4,474 4,474 4,505 9,176 9,178 9,225 9,226 9,316 9,318	0.00 0.00 30.41 4,670.92 2.40 48.31 1.67 89.33 2.48	9,470.0 9,470.0 9,470.0 9,470.0 9,470.0 9,470.0 9,470.0 9,470.0 Scratchers	5,350. 5,350. 5,350. 5,350. 5,350. 5,350. 5,350.
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	50 Stds 5"DP Hanger Assm Casing Joint Landing Collar Casing Joint Float Collar Casing Joint Guide Shoe duction Casing, Plant lepth (MD) (ffKB) 152	5 7 5/8 7 5/8 7 5/8 7 5/8 7 5/8 7 5/8 7 5/8 7 5/8 7 5/8 7 5/8 7 5/8 7 5/8 7 5/8 7 5/8 7 5/8 OD (in)	3.500 6.875 6.875 6.875 6.875 6.875 6.875 6.800	19.50 29.70 29.70 29.70 29.70 29.70 29.70 String N	S-135 P-110 P-110 P-110 P-110 P-110 P-110 P-110 Grade	TSH513	4,474 4,474 4,474 4,505 9,176 9,178 9,225 9,226 9,316	4,474 4,474 4,505 9,176 9,178 9,225 9,226 9,316 9,318 htralizers	0.00 0.00 30.41 4,670.92 2.40 46.31 1.67 89.33 2.48	9,470.0 9,470.0 9,470.0 9,470.0 9,470.0 9,470.0 9,470.0 9,470.0	5,350. 5,350. 5,350. 5,350. 5,350. 5,350. P Collapse (psi)
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	50 Stds 5"DP Hanger Assm Casing Joint Landing Collar Casing Joint Float Collar Casing Joint Guide Shoe duction Casing, Plant Landing Collar Landing Collar Landing Collar Landing Collar Landing Joint Guide Shoe Marker Joint	5 7 5/8 7 5/	3.500 6.875 6.875 6.875 6.875 6.875 6.875 6.875 6.800 (kips)	19.50 29.70 29.70 29.70 29.70 29.70 29.70 String N 5	S-135 P-110 P-110 P-110 P-110 P-110 P-110 Grade P-110	TSH513  String Min Drift (in) 4.156 Top Thread Tenans 521	4,474 4,474 4,474 4,505 9,176 9,178 9,225 9,226 9,316  Cel (MD) (RKB) -683	4,474 4,474 4,505 9,176 9,178 9,225 9,226 9,316 9,318 htralizers  Bim Depth (MC) (NCB) -664	0.00 0.00 30.41 4,670.92 2.40 46.31 1.67 89.33 2.48	9,470.0 9,470.0 9,470.0 9,470.0 9,470.0 9,470.0 9,470.0 9,470.0 Scratchers	5,350. 5,350. 5,350. 5,350. 5,350. 5,350. 5,350. 13,450.
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	50 Stds 5"DP Hanger Assm Casing Joint Landing Collar Casing Joint Float Collar Casing Joint Guide Shoe duction Casing, Plant Depth (MD) (1009) JEE Item Des Marker Joint Casing Joint	5 7 5/8 7 5/	3.500 6.875 6.875 6.875 6.875 6.875 6.875 6.875 6.800 (kips)	19.50 29.70 29.70 29.70 29.70 29.70 29.70 String N 5	S-135 P-110 P-110 P-110 P-110 P-110 P-110 Grade P-110 P-110 P-110	TSH513 TSH513 TSH513 TSH513 TSH513 TSH513 TSH513 TSH513  String Min Drift (in) 4.156 Top Thread Tenans 521 Tenaris 521	4,474 4,474 4,474 4,505 9,176 9,178 9,225 9,226 9,316  Cel (MD) (RKB) -683 -684	4,474 4,474 4,505 9,176 9,178 9,225 9,226 9,316 9,318 htralizers  Bim Depth (MD) (ft/B) -664 33	0.00 0.00 30.41 4,670.92 2.40 46.31 1.67 89.33 2.48	9,470.0 9,470.0 9,470.0 9,470.0 9,470.0 9,470.0 9,470.0 9,470.0 9,470.0 Scratchers  P Burst (psi) 13,940.0 13,940.0	5,350. 5,350. 5,350. 5,350. 5,350. 5,350. 13,450.
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	50 Stds 5"DP Hanger Assm Casing Joint Landing Collar Casing Joint Float Collar Casing Joint Guide Shoe duction Casing, Plant Depth (MD) (1009) J52 Item Des Marker Joint Casing Joint Hanger	5 7 5/8 7 5/8 7 5/8 7 5/8 7 5/8 7 5/8 7 5/8 7 5/8 7 5/8 7 5/8 7 5/8 7 5/8 7 5/8 7 5/8 5 1 Tension OD (in) 5 5 5 1/2	3.500 6.875 6.875 6.875 6.875 6.875 6.875 6.800 ftKB (lcps) (lcps)	19.50 29.70 29.70 29.70 29.70 29.70 29.70 String N 6	S-135 P-110 P-110 P-110 P-110 P-110 P-110 Grade P-110 P-110 P-110 P-110 P-110	TSH513 TSH513 TSH513 TSH513 TSH513 TSH513 TSH513 TSH513  String Min Drift (in) 4.156 Top Thread Tenaris 521 Tenaris 521 Tenaris	4,474 4,474 4,474 4,505 9,176 9,178 9,225 9,226 9,316  Cel (MD) (fixis) -683 -684 33	4,474 4,474 4,505 9,176 9,178 9,225 9,226 9,316 9,318  htralizers  Btm Depth (MD) (ft/B) -664 33 33	0.00 0.00 30.41 4,670.92 2.40 46.31 1.67 89.33 2.48 Len (ft) 19.08 696.84 0.25	9,470.0 9,470.0 9,470.0 9,470.0 9,470.0 9,470.0 9,470.0 9,470.0 9,470.0 13,940.0 13,940.0 13,940.0	5,350. 5,350. 5,350. 5,350. 5,350. 5,350. 5,350. 13,450. 13,450.
1 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 1 1 1 1	50 Stds 5"DP Hanger Assm Casing Joint Landing Collar Casing Joint Float Collar Casing Joint Guide Shoe duction Casing, Plant Depth (MD) (MKB) J52 Item Des Marker Joint Casing Joint Hanger Pup Joint	5 7 5/8 7 5/8 7 5/8 7 5/8 7 5/8 7 5/8 7 5/8 7 5/8 7 5/8 7 5/8 7 5/8 7 5/8 7 5/8 7 5/8 5 1 7 5/8 5 1/2 5 1/2	3.500 6.875 6.875 6.875 6.875 6.875 6.875 6.800 htkB (lcips) (D (in) 4.276 4.276 4.276 4.276	19.50 29.70 29.70 29.70 29.70 29.70 29.70 29.70 String No. 18.00 18.00	S-135 P-110 P-110 P-110 P-110 P-110 P-110 Grade P-110 P-110 P-110 P-110 P-110	TSH513 Top Thread Tenaris 521 Tenaris 521 Tenaris 521 Tenaris 521	4,474 4,474 4,474 4,505 9,176 9,178 9,226 9,316  Cet (MD) (fiKB) -683 -664 33 33	4,474 4,474 4,505 9,176 9,178 9,225 9,226 9,318 9,318  htralizers  Btm Depth (MD) (tiks) -664 33 33	0.00 0.00 30.41 4,670.92 2.40 48.31 1.67 89.33 2.48 Len (ft) 19.08 696.84 0.25 4.35	9,470.0 9,470.0 9,470.0 9,470.0 9,470.0 9,470.0 9,470.0 9,470.0 9,470.0 13,940.0 13,940.0 13,940.0 13,940.0	5,350. 5,350. 5,350. 5,350. 5,350. 5,350. 13,450. 13,450. 13,450.
1 1 1 1 2 1 ts 2 6 1 1 1	50 Stds 5"DP Hanger Assm Casing Joint Landing Collar Casing Joint Float Collar Casing Joint Guide Shoe duction Casing, Plant Depth (MD) (fix8) 452 Item Des Marker Joint Casing Joint Hanger Pup Joint XO	5 7 5/8 7 5/	3.500 6.875 6.875 6.875 6.875 6.875 6.875 6.875 6.800 ftKB (bips) (D (in) 4.276 4.276 4.276 4.276	19.50 29.70 29.70 29.70 29.70 29.70 29.70 29.70 String N 5 WI (lb/m) 18.00 18.00	S-135 P-110	TSH513 Top Thread Tenaris 521 Tenaris 521 Tenaris 521 Tenaris 521 Tenaris 521	4,474 4,474 4,474 4,505 9,176 9,178 9,225 9,226 9,316  Cei 85 Top Depth (MD) (NKB) -683 -664 33 33 33	4,474 4,474 4,505 9,176 9,178 9,225 9,226 9,316 9,318  htralizers  Btm Depth (MD) (tiKB) -664 33 33 37	0.00 0.00 30.41 4,670.92 2.40 48.31 1.67 89.33 2.48 Len (ft) 19.08 696.84 0.25 4.35 1.84	9,470.0 9,470.0 9,470.0 9,470.0 9,470.0 9,470.0 9,470.0 9,470.0 9,470.0 13,940.0 13,940.0 13,940.0 13,940.0	5,350. 5,350. 5,350. 5,350. 5,350. 5,350. 5,350. 13,450. 13,450. 13,450. 13,450.
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	50 Stds 5"DP Hanger Assm Casing Joint Landing Collar Casing Joint Float Collar Casing Joint Guide Shoe duction Casing, Plant Depth (MD) (fix8) 452 Item Des Marker Joint Casing Joint Hanger Pup Joint XO Casing Joint	5 7 5/8 7 5/8 7 5/8 7 5/8 7 5/8 7 5/8 7 5/8 7 5/8 7 5/8 7 5/8 7 5/8 7 5/8 7 5/8 7 5/8 5 1 7 5/8 5 1/2 5 1/2	3.500 6.875 6.875 6.875 6.875 6.875 6.875 6.800 htkB (lcips) (D (in) 4.276 4.276 4.276 4.276	19.50 29.70 29.70 29.70 29.70 29.70 29.70 29.70 String N 5 WI (lb/m) 18.00 18.00	S-135 P-110 P-110 P-110 P-110 P-110 P-110 Grade P-110 P-110 P-110 P-110 P-110	TSH513 Top Thread Tenaris 521 Tenaris 521 Tenaris 521 Tenaris 521	4,474 4,474 4,474 4,505 9,176 9,178 9,226 9,316  Cet (MD) (fiKB) -683 -664 33 33	4,474 4,474 4,505 9,176 9,178 9,225 9,226 9,318 9,318  htralizers  Btm Depth (MD) (tiks) -664 33 33	0.00 0.00 30.41 4,670.92 2.40 48.31 1.67 89.33 2.48 Len (ft) 19.08 696.84 0.25 4.35	9,470.0 9,470.0 9,470.0 9,470.0 9,470.0 9,470.0 9,470.0 9,470.0 9,470.0 13,940.0 13,940.0 13,940.0 13,940.0	5,350. 5,350. 5,350. 5,350. 5,350. 5,350. 5,350. 13,450. 13,450. 13,450. 13,450.
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	50 Stds 5"DP Hanger Assm Casing Joint Landing Collar Casing Joint Float Collar Casing Joint Guide Shoe duction Casing, Plant Depth (MD) (1009) 152 Item Des Marker Joint Casing Joint Hanger Pup Joint XO Casing Joint	5 7 5/8 7 5/	3.500 6.875 6.875 6.875 6.875 6.875 6.875 6.800 htkB (tops) (D (in) 4.276 4.276 4.276 4.276 4.276	19.50 29.70 29.70 29.70 29.70 29.70 29.70 3tring No. 18.00 18.00 18.00	S-135 P-110	TSH513 Top Thread Tenaris 521	4,474 4,474 4,474 4,505 9,176 9,178 9,225 9,226 9,316  Cet (MD) (fiKB) -683 -664 33 33 37	4,474 4,474 4,505 9,176 9,178 9,225 9,226 9,316 9,318  htralizers  Btm Depth (MD) (ft/S) -664 33 33 37 39 8,712	0.00 0.00 30.41 4,670.92 2.40 48.31 1.67 89.33 2.48 Len (ft) 19.08 696.84 0.25 4.35 1.84 8.672.91	9,470.0 9,470.0 9,470.0 9,470.0 9,470.0 9,470.0 9,470.0 9,470.0 9,470.0 13,940.0 13,940.0 13,940.0 13,940.0 13,940.0	5,350. 5,350. 5,350. 5,350. 5,350. 5,350. 13,450. 13,450. 13,450.
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	50 Stds 5"DP Hanger Assm Casing Joint Landing Collar Casing Joint Float Collar Casing Joint Guide Shoe duction Casing, Plant Depth (MD) (fix8) 452 Item Des Marker Joint Casing Joint Hanger Pup Joint XO Casing Joint Marker Joint Marker Joint	5 7 5/8 7 5/	3.500 6.875 6.875 6.875 6.875 6.875 6.875 6.875 6.800 htkB (lcips) 4.276 4.276 4.276 4.276 4.276	19.50 29.70 29.70 29.70 29.70 29.70 29.70 29.70 String N 5 W( (lb/m) 18.00 18.00 18.00	S-135 P-110	TSH513 Top Thread Tenaris 521	4,474 4,474 4,474 4,505 9,176 9,178 9,225 9,226 9,316  Cere (MD) (NKB) -683 -664 33 33 37 39	4,474 4,474 4,505 9,176 9,178 9,225 9,226 9,318 9,318 htralizers  Btm Depth (MD) (tiKB) -664 33 33 37 39 8,712	0.00 0.00 30.41 4,670.92 2.40 46.31 1.67 89.33 2.48 Len (ft) 19.08 696.84 0.25 4.35 1.84 8.672.91	9,470.0 9,470.0 9,470.0 9,470.0 9,470.0 9,470.0 9,470.0 9,470.0 9,470.0 13,940.0 13,940.0 13,940.0 13,940.0 13,940.0 13,940.0	5,350. 5,350. 5,350. 5,350. 5,350. 5,350. 13,450. 13,450. 13,450. 13,450.
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	50 Stds 5"DP Hanger Assm Casing Joint Landing Collar Casing Joint Float Collar Casing Joint Guide Shoe duction Casing, Plant Depth (MD) (1009) 152 Item Des Marker Joint Casing Joint Hanger Pup Joint XO Casing Joint	5 7 5/8 7 5/	3.500 6.875 6.875 6.875 6.875 6.875 6.875 6.800 htkB (tops) (D (in) 4.276 4.276 4.276 4.276 4.276	19.50 29.70 29.70 29.70 29.70 29.70 29.70 29.70 String N 5 W( (lb/m) 18.00 18.00 18.00	S-135 P-110	TSH513 Top Thread Tenaris 521	4,474 4,474 4,474 4,505 9,176 9,178 9,226 9,316  Cet (MD) (NKB) -683 -664 33 33 37	4,474 4,474 4,505 9,176 9,178 9,225 9,226 9,316 9,318  htralizers  Btm Depth (MD) (ft/S) -664 33 33 37 39 8,712	0.00 0.00 30.41 4,670.92 2.40 48.31 1.67 89.33 2.48 Len (ft) 19.08 696.84 0.25 4.35 1.84 8.672.91	9,470.0 9,470.0 9,470.0 9,470.0 9,470.0 9,470.0 9,470.0 9,470.0 9,470.0 13,940.0 13,940.0 13,940.0 13,940.0 13,940.0	5,350. 5,350. 5,350. 5,350. 5,350. 5,350. 5,350. 13,450. 13,450. 13,450. 13,450.
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	50 Stds 5"DP Hanger Assm Casing Joint Landing Collar Casing Joint Float Collar Casing Joint Guide Shoe duction Casing, Plant Depth (MD) (1008) J52 Item Des Marker Joint Casing Joint Hanger Pup Joint XO Casing Joint Marker Joint Casing Joint Marker Joint Casing Joint Marker Joint Casing Joint	5 7 5/8 7 5/	3.500 6.875 6.875 6.875 6.875 6.875 6.875 6.800 htkB (lcips) (D (in) 4.276 4.276 4.276 4.276 4.276 4.276 4.276	19.50 29.70 29.70 29.70 29.70 29.70 29.70 29.70 8tring No. 18.00 18.00 18.00 18.00	S-135 P-110	TSH513 Top Thread Tenaris 521	4,474 4,474 4,474 4,505 9,176 9,178 9,225 9,226 9,316  Ceres 85 Top Depth (MD) (NKB) -683 -664 33 33 37 39 8,712 8,721	4,474 4,474 4,505 9,176 9,178 9,225 9,226 9,316 9,318 htralizers  Blm Depth (MD) (tiks) -664 33 33 37 39 8,712 8,721 16,274	0.00 0.00 30.41 4,670.92 2.40 48.31 1.67 89.33 2.48 Len (ft) 19.08 696.84 0.25 4.35 1.84 8.672.91	9,470.0 9,470.0 9,470.0 9,470.0 9,470.0 9,470.0 9,470.0 9,470.0 9,470.0 13,940.0 13,940.0 13,940.0 13,940.0 13,940.0 13,940.0 13,940.0 13,940.0	5,350. 5,350. 5,350. 5,350. 5,350. 5,350. 13,450. 13,450. 13,450. 13,450.
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	50 Stds 5"DP Hanger Assm Casing Joint Landing Collar Casing Joint Float Collar Casing Joint Guide Shoe duction Casing, Plant Depth (MD) (1008) J52 Item Des Marker Joint Casing Joint Hanger Pup Joint XO Casing Joint Marker Joint Casing Joint Marker Joint Casing Joint Pup Jt	5 7 5/8 7 5/	3.500 6.875 6.875 6.875 6.875 6.875 6.875 6.800 htkB (lcips) (D (in) 4.276 4.276 4.276 4.276 4.276 4.276 4.276 4.276 4.276 4.276 4.276	19.50 29.70 29.70 29.70 29.70 29.70 29.70 29.70 8tring N 5 W(lb/m) 18.00 18.00 18.00 18.00	S-135 P-110	TSH513 Top Thread Tenaris 521	4,474 4,474 4,474 4,474 4,505 9,176 9,178 9,225 9,226 9,316    Top Depth (MD) (NKB) -683 -684 33 33 37 39 8,712 8,721	4,474 4,474 4,505 9,176 9,178 9,225 9,226 9,316 9,318 htralizers  Btm Depth (MD) (tiks) -664 33 33 37 39 8,712 8,721 16,274	0.00 0.00 30.41 4,670.92 2.40 48.31 1.67 89.33 2.48 Len (ft) 19.08 696.84 0.25 4.35 1.84 8.672.91 9.61 7,552.64	9,470.0 9,470.0 9,470.0 9,470.0 9,470.0 9,470.0 9,470.0 9,470.0 9,470.0 13,940.0 13,940.0 13,940.0 13,940.0 13,940.0 13,940.0 13,940.0 13,940.0	5,350. 5,350. 5,350. 5,350. 5,350. 5,350. 5,350. 13,450. 13,450. 13,450. 13,450. 13,450. 13,450.
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	50 Stds 5"DP Hanger Assm Casing Joint Landing Collar Casing Joint Float Collar Casing Joint Guide Shoe duction Casing, Plant Depth (MD) (1008) J52 Item Des Marker Joint Casing Joint Hanger Pup Joint XO Casing Joint Marker Joint Casing Joint Marker Joint Casing Joint Marker Joint Casing Joint	5 7 5/8 7 5/	3.500 6.875 6.875 6.875 6.875 6.875 6.875 6.800 htkB (lcips) (D (in) 4.276 4.276 4.276 4.276 4.276 4.276 4.276	19.50 29.70 29.70 29.70 29.70 29.70 29.70 29.70 35tring N 5 W (lb/m) 18.00 18.00 18.00 18.00 18.00	S-135 P-110	TSH513 Top Thread Tenaris 521	4,474 4,474 4,474 4,505 9,176 9,178 9,225 9,226 9,316  Ceres 85 Top Depth (MD) (NKB) -683 -664 33 33 37 39 8,712 8,721	4,474 4,474 4,505 9,176 9,178 9,225 9,226 9,316 9,318 htralizers  Blm Depth (MD) (tiks) -664 33 33 37 39 8,712 8,721 16,274	0.00 0.00 30.41 4,670.92 2.40 48.31 1.67 89.33 2.48 Len (ft) 19.08 696.84 0.25 4.35 1.84 8.672.91	9,470.0 9,470.0 9,470.0 9,470.0 9,470.0 9,470.0 9,470.0 9,470.0 9,470.0 13,940.0 13,940.0 13,940.0 13,940.0 13,940.0 13,940.0 13,940.0 13,940.0	5,350. 5,350. 5,350. 5,350. 5,350. 5,350. 13,450. 13,450. 13,450. 13,450.



## **Casing Summary**

	Salado Draw 29-26-33 Fed	Business Unit Mid-Continent
Ground Elevation (ft) Original RKB (ft)	Current RKB Elevation	Mud Line Elevation (ft) Water Depth (ft)

Jts	Item Des	OD (in)	ID (in)	Wt (lb/ft)	Grade	Top Thread	Top Depth (MD) (ftKB)	Btm Depth (MD) (ftKB)	Len (ft)	P Burst (psi)	P Collapse (psi)
1	Casing Joint	5	4.276	18.00	P-110	Tenans 521	16,300	16,343	43.18	13,940.0	13,450.0
1	Pup Jt	5	4.276	18.00	P-110	Tenans 521	16,343	16,353	9.68	13,940.0	13,450.0
1	Landing collar	5	4.276	18.00	P-110	Tenaris 521	16,353	16,354	1.40	13,940.0	13,450.0
1	Casing Joint	5	4.276	18.00	P-110	Tenaris 521	16,354	16,400	45.59	13,940.0	13,450.0
1	Float collar	5	4.276	18.00	P-110	Tenans 521	16,400	16,402	1 96	13,940.0	13,450.0
1	XRV Vibrator Sub	5	4.276	18.00	P-110	Tenaris 521	16,402	16,404	2.36	13,940.0	13,450.0
1	Casing Joint	5	4.276	18.00	P-110	Tenans 521	16,404	16,450	45.60	13,940.0	13,450.0
1	Float shoe	5	4 276	18.00	P-110	Tenaris 521	16,450	16,452	2.36	13,940.0	13,450.0

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### **Cement Summary**

#### **Production Casing Cement**

									ouuction cas	
Well Name SALADO DRAW 29-26- 001H	33 FED COM	Salado Draw	29-26-33 Fed		Field Name WILDCA	T (HOBBS)	)	Business Mid-Co	Unit Intinent	
Ground Elevation (ft) Ong	nal RKB (ft)	Current RKB Eleva	rtion					Mud tine	Elevation (ft) Water	er Depth (ft)
Original Hole					100					
Wellbore Name		Directional Type			Min Kick Off	Depth (RKB)			ection Direction (*)	
Original Hole Hole Size (iii		Vertical	Ac	Top (RKB)				186.61	Btm (ftKB)	
Linia 2rta (u	17 1/2		AC	( Top (IIICB)		32.6		Act	aun (nna)	870
	12 1/4					870.0				4.801
	8 3/4					4,801.0				9,328
ST1										
Wellbore Name		Directional Type				Depth (ftKB)			ction Direction (*)	
ST1 Hole Size (ir	0	Horizontal	Art	Top (ftKB)	9,328.0			185.47	Btm (ftKB)	
THE SECOND	8 3/4			Top (mac)		8,214.0				9,328
	6 3/4					9,328.0				16,467
VG-Horizontal, Vetco G	rey on 12/19/20	014 03:30								
Sub-Type VG-Horizontal					Install Date 12/19/20	14				
Des .	I Ma	ake	Mod	iei	12/18/20	WP (psi)		Service		SN
Surface, Planned?-N, 8	60ftKB									
Casing Description Surface	Wellbore Original Hole		Run Date 11/16/2015		Set Depth (I 860	MD) (ftKB)	Stick Up -32.3	o (fIKB)	Set Tension (ki	ips)
Centralizers	Oliginal Hole	February Allegan M.	11/10/2015		Scratchers		-32.3			
10					DE VI	71 1 1 1 1				
Jts Item I	Des	OD (in)	ID (in)	Wt (lb/ft)	Grade	Top Conn Sz	Top Thread	Len (ft)	Top Depth (MD) (ftKB)	Btm Depth (MD) (ftKB)
1 Casing Joint		13 3/8	12.715	48.00	H-40		ST&C	0.00	32	33
1 Wellhead		13 3/8	12.715	48.00	H-40		ST&C	4.63	32	3
1 Pup Joint		13 3/8	12.715	48.00	H-40		ST&C	4.11	37	4
1 Casing Joint		13 3/8	12 715	48.00	H-40	12.50	ST&C	39.07	41	81
1 Casing Joint		13 3/8	12 715	48.00	STATE OF THE PARTY		ST&C	37.88	80	111
18 Casing Joint		13 3/8	12 715	48.00	March Street Street		ST&C	702.16	118	820
1 Float Collar		13 3/8	12.715	48.00	SCHOOL STATE OF THE STATE OF TH		ST&C	1.37	820	823
1 Casing Joint		13 3/8	12.715	48.00	THE RESIDENCE OF THE PARTY OF		ST&C	36.95	822	850
		THE RESERVE AND ADDRESS OF THE PERSON NAMED IN						THE RESIDENCE OF THE PARTY OF T		
1 Float Shoe		13 3/8	12.719	48.00	H-40			1.54	858	860
Intermediate Casing 1,		791ftKB		48.00		4D) (eVD)	len.			
Intermediate Casing 1, Casing Description	Planned?-N, 4,	791ftKB	12.719 Run Date 11/21/2015	48.00	Set Depth (	MD) (RKB)	Stick Up		Set Tension (ki	
Intermediate Casing 1, Casing Description Intermediate Casing 1 Centralizers	Wellbore	791ftKB	Run Date	48.00	Set Depth (	MD) (NKB)				
Intermediate Casing 1, Casing Description Intermediate Casing 1	Wellbore	791ftKB	Run Date	48.00	Set Depth (4,791		-33.4		Set Tension (ki	ips)
Intermediate Casing 1, Casing Description Intermediate Casing 1 Centralizers 33	Weibora Original Hole	791ftKB	Run Date 11/21/2015 ID (in)	Wt (Ib/ft)	Set Depth (14,791 Scratchers	MD) (tiKB)  Top Conn Sz (in)	-33.4	a (fKB)  Len (ft)	Set Tension (ki Top Depth (MD) (RKB)	Btm Depth (MD)
Intermediate Casing 1, Casing Description Intermediate Casing 1 Centralizers 33 Jts ltem 1 Casing Joint	Weibora Original Hole	791ftKB  OD (in) 9 5/8	Run Date 11/21/2015 ID (in) 8.844	Wt (ib/ft) 40.00	Set Depth   4,791   Scratchers   Grade   HCK-55	Top Conn Sz	Top Thread	Len (ft)	Set Tension (ki Top Depth (MD) (flKB)	Btm Depth (MD) (ftKB)
Intermediate Casing 1, Casing Description Intermediate Casing 1 Centralizers 33  Jis Item 1 1 Casing Joint 1 Landing jt	Weibora Original Hole	OD (in) 9 5/8 9 5/8	Run Date 11/21/2015 ID (in) 8.844 8.844	Wt (ib/ft) 40.00 40.00	Set Depth   4,791   Scratchers   Grade   HCK-55   HCK-55	Top Conn Sz	Top Thread LT&C LT&C	Len (ft) 0.00	Set Tension (ki Top Depth (MD) (ftKB) 33	Btm Depth (MD) (ft/KB)
Intermediate Casing 1, Casing Description Intermediate Casing 1 Centralizers 33  Jts   Item I 1 Casing Joint 1 Landing it 1 Hanger + pup	Weibora Original Hole	OD (in) 9 5/8 9 5/8 9 5/8	Run Date 11/21/2015 (D (in) 8.844 8.844 8.844	Wt (lb/ft) 40.00 40.00 40.00	Set Depth if 4,791 Scratchers Grade HCK-55 HCK-55	Top Conn Sz	Top Thread LT&C LT&C LT&C	Len (ft) 0.00 0.00 4.33	Set Tension (kill Top Depth (MD) (flKB) 33 33	Btm Depth (MD) (ftKB)
Intermediate Casing 1, Casing Description Intermediate Casing 1 Centralizers 33  Jts Item I 1 Casing Joint 1 Landing it 1 Hanger + pup 2 Casing Joint	Weibora Original Hole	OD (in) 9 5/8 9 5/8 9 5/8 9 5/8	Run Date 11/21/2015 ID (in) 8.844 8.844 8.844 8.844	Wt (lbft) 40.00 40.00 40.00 40.00	Set Depth if 4,791 Scratchers Grade HCK-55 HCK-55 HCK-55	Top Conn Sz	Top Thread LT&C LT&C LT&C LT&C LT&C	Len (ft) 0.00 0.00 4 33 70.84	Set Tension (kill Top Depth (MD) (flKB) 33 33 33 38	Btm Depth (MD) (ft/KB)
Intermediate Casing 1, Casing Description Intermediate Casing 1 Centralizers 33  Jts Item I 1 Casing Joint 1 Landing jt 1 Hanger + pup 2 Casing Joint 116 Casing Joint	Weibora Original Hole	OD (in) 9 5/8 9 5/8 9 5/8	Run Date 11/21/2015 (D (in) 8.844 8.844 8.844	Wt (lbft) 40.00 40.00 40.00 40.00 40.00	Set Depth 14,791 Scratchers Grade HCK-55 HCK-55 HCK-55 HCK-55 HCK-55	Top Conn Sz	Top Thread LT&C LT&C LT&C LT&C LT&C LT&C LT&C LT&C	Len (ft) 0.00 0.00 4 33 70.84 4,526.09	Top Depth (MD) (flKB)  33  33  38  109	Btm Depth (MD) (ftKB) 33 34 108 4,636
Intermediate Casing 1, Casing Description Intermediate Casing 1 Centralizers 33  Jts Item 1 Casing Joint 1 Landling jt 1 Hanger + pup 2 Casing Joint 116 Casing Joint 2 Casing Joint 2 Casing Joint	Weibora Original Hole	OD (in) 9 5/8 9 5/8 9 5/8 9 5/8 9 5/8 9 5/8 9 5/8	Run Date 11/21/2015 (D (in) 8.844 8.844 8.844 8.844 8.844 8.844	Wt (lbft) 40.00 40.00 40.00 40.00 40.00	Set Depth 14,791 Scratchers  Grade HCK-55 HCK-55 HCK-55 HCK-55 HCK-55 HCK-55	Top Conn Sz	Top Thread LT&C LT&C LT&C LT&C LT&C LT&C LT&C LT&C	Len (ft) 0.00 0.00 4.33 70.84 4,526.09 78.11	Top Depth (MD) (flKB) 33 33 33 38 109 4,635	Btm Depth (MD) (ft/KB) 33 33 34 100 4,634 4,713
Intermediate Casing 1, Casing Description Intermediate Casing 1 Centralizers 33  Jts Item I 1 Casing Joint 1 Landing jt 1 Hanger + pup 2 Casing Joint 116 Casing Joint	Weibora Original Hole	OD (in) 9 5/8 9 5/8 9 5/8 9 5/8 9 5/8 9 5/8	Run Date 11/21/2015 (D (in) 8.844 8.844 8.844 8.844 8.844	Wt (lbft) 40.00 40.00 40.00 40.00 40.00 40.00	Set Depth 14,791 Scratchers Grade HCK-55 HCK-55 HCK-55 HCK-55 HCK-55	Top Conn Sz	Top Thread LT&C LT&C LT&C LT&C LT&C LT&C LT&C LT&C	Len (ft) 0.00 0.00 4 33 70.84 4,526.09	Top Depth (MD) (flKB)  33  33  38  109	Btm Depth (MD) (fiKB) 33 33 34 105 4,714 4,714
Intermediate Casing 1, Casing Description Intermediate Casing 1 Centralizers 33  Jis Item 1 Casing Joint 1 Landling jt 1 Hanger + pup 2 Casing Joint 116 Casing Joint 2 Casing Joint 1 Float Collar	Weibora Original Hole	OD (in) 9 5/8 9 5/8 9 5/8 9 5/8 9 5/8 9 5/8 9 5/8 9 5/8 9 5/8	Run Date 11/21/2015 (D (in) 8.844 8.844 8.844 8.844 8.844 8.844 8.844	Wt (lbft) 40.00 40.00 40.00 40.00 40.00 40.00 40.00	Set Depth 14,791 Scratchers  Grade HCK-55 HCK-55 HCK-55 HCK-55 HCK-55 HCK-55 HCK-55	Top Conn Sz	Top Thread LT&C LT&C LT&C LT&C LT&C LT&C LT&C LT&C	Len (ft) 0.00 0.00 4.33 70.84 4.526.09 78.11	Top Depth (MD) (flKB)  33  33  38  109  4,635  4,713	Btm Depth (MD) (NKB)  33  31  105  4,633  4,713  4,714
Intermediate Casing 1, Casing Description Intermediate Casing 1 Centralizers 33  Jis Item 1 Casing Joint 1 Landing jt 1 Hanger + pup 2 Casing Joint 116 Casing Joint 2 Casing Joint 1 Float Collar 2 Casing Joint 1 Float Shoe	Weilbora Original Hole	OD (in) 9 5/8 9 5/8 9 5/8 9 5/8 9 5/8 9 5/8 9 5/8 9 5/8 9 5/8 9 5/8	Run Date 11/21/2015 (D (in) 8.844 8.844 8.844 6.844 8.844 8.844 8.844	Wt (lbft) 40.00 40.00 40.00 40.00 40.00 40.00 40.00	Set Depth 14,791 Scratchers  Grade HCK-55 HCK-55 HCK-55 HCK-55 HCK-55 HCK-55 HCK-55 HCK-55	Top Conn Sz	Top Thread LT&C LT&C LT&C LT&C LT&C LT&C LT&C LT&C	Len (ft) 0.00 0.00 4 33 70.84 4,526.09 78.11 1 22 75.34	Top Depth (MD) (ftKB)  33  33  38  109  4,635  4,713  4,714	Btm Depth (MD)
Intermediate Casing 1, Casing Description Intermediate Casing 1 Centralizers 33  Jis Item 1 Casing Joint 1 Landling jt 1 Hanger + pup 2 Casing Joint 116 Casing Joint 2 Casing Joint 2 Casing Joint 1 Float Collar 2 Casing Joint 1 Float Shoe Drilling Liner 1, Planne Casing Description	Original Hole Des  d?-N, 9,318ftKE	OD (in) 9 5/8 9 5/8 9 5/8 9 5/8 9 5/8 9 5/8 9 5/8 9 5/8 9 5/8 9 5/8	Run Date 11/21/2015 ID (in) 8.844 8.844 8.844 8.844 8.844 8.844 8.844	Wt (lbft) 40.00 40.00 40.00 40.00 40.00 40.00 40.00	Set Depth 14,791 Scratchers  Grade HCK-55	Top Conn Sz (in)	Top Thread LT&C LT&C LT&C LT&C LT&C LT&C LT&C LT&C	Len (ft) 0.00 0.00 4.33 70.84 4.526.09 78.11 1.22 75.34 1.64	Top Depth (MD) (ftKB)  33  33  38  109  4,635  4,713  4,714	Btm Depth (MD) (NKB)  36  36  105  4,636  4,714  4,786  4,791
Intermediate Casing 1, Casing Description Intermediate Casing 1 Cantralizers 33  Jis Item 1 Casing Joint 1 Landling it 1 Hanger + pup 2 Casing Joint 116 Casing Joint 2 Casing Joint 2 Casing Joint 1 Float Collar 2 Casing Joint 1 Float Shoe Drilling Liner 1, Planne Casing Description Drilling Liner 1	Weilbore Original Hole	OD (in) 9 5/8 9 5/8 9 5/8 9 5/8 9 5/8 9 5/8 9 5/8 9 5/8 9 5/8 9 5/8	Run Date 11/21/2015 ID (in) 8.844 8.844 8.844 6.844 6.844 8.844 8.844 8.844	Wt (lbft) 40.00 40.00 40.00 40.00 40.00 40.00 40.00	Set Depth 14,791 Scratchers  Grade HCK-55	Top Conn Sz (in)	Top Thread LT&C LT&C LT&C LT&C LT&C LT&C LT&C LT&C	Len (ft) 0.00 0.00 4.33 70.84 4.526.09 78.11 1.22 75.34 1.64	Top Depth (MD) (RKB)  33  33  38  109  4,635  4,713  4,714  4,789	Btm Depth (MD) (NKB) 33 33 34 105 4,636 4,714 4,785 4,791
Intermediate Casing 1, Casing Description Intermediate Casing 1 Caninalizers 33 Its Item 1 Casing Joint 1 Landing it 1 Hanger + pup 2 Casing Joint 116 Casing Joint 2 Casing Joint 2 Casing Joint 1 Float Collar 2 Casing Joint 1 Float Shoe Drilling Liner 1, Planne Casing Description Drilling Liner 1 Centralizers	Original Hole Des  d?-N, 9,318ftKE	OD (in) 9 5/8 9 5/8 9 5/8 9 5/8 9 5/8 9 5/8 9 5/8 9 5/8 9 5/8 9 5/8	Run Date 11/21/2015 ID (in) 8.844 8.844 8.844 8.844 8.844 8.844 8.844	Wt (lbft) 40.00 40.00 40.00 40.00 40.00 40.00 40.00	Set Depth 14,791 Scratchers  Grade HCK-55	Top Conn Sz (in)	Top Thread LT&C LT&C LT&C LT&C LT&C LT&C LT&C LT&C	Len (ft) 0.00 0.00 4.33 70.84 4.526.09 78.11 1.22 75.34 1.64	Set Tension (kill)  Top Depth (MD) (fikB)  33  33  38  109  4,635  4,713  4,714  4,789	Btm Depth (MD) (RKB)  31  32  31  101  4,634  4,714  4,786  4,799
Intermediate Casing 1, Casing Description Intermediate Casing 1 Centralizers 33  Jts Item 1 Casing Joint 1 Casing Joint 1 Landling jt 1 Hanger + pup 2 Casing Joint 116 Casing Joint 2 Casing Joint 1 Float Collar 2 Casing Joint 1 Float Shoe Drilling Liner 1, Planne Casing Description Drilling Liner 1 Centralizers 0	Weibore Original Hole Des  d?-N, 9,318ftKB Weibore ST1	OD (in) 9 5/8 9 5/8 9 5/8 9 5/8 9 5/8 9 5/8 9 5/8 9 5/8 9 5/8 9 5/8	Run Date 11/21/2015 (D (in) 8.844 8.844 8.844 8.844 8.844 8.844 8.844 8.844 8.844	Wt (lbft) 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00	Set Depth 14,791 Scratchers  Grade HCK-55	Top Conn Sz (in)  MD) (RKB)	Top Thread LT&C LT&C LT&C LT&C LT&C LT&C LT&C LT&C	Len (ft) 0.00 0.00 4 33 70.84 4,526.09 78.11 1 22 75.34 1 64	Top Depth (MD) (RKB)  33  33  33  38  109  4,635  4,713  4,714  4,789  Set Tension (ki)	Btm Depth (MD) (NKB)  33  33  4,713  4,714  4,789  4,799  Btm Depth (MD)
Intermediate Casing 1, Casing Description Intermediate Casing 1 Caninalizers 33  Jts Item 1 Casing Joint 1 Landing it 1 Hanger + pup 2 Casing Joint 116 Casing Joint 2 Casing Joint 2 Casing Joint 1 Float Collar 2 Casing Joint 1 Float Shoe Drilling Liner 1, Planne Casing Description Drilling Liner 1 Centralizers	Weibore Original Hole Des  d?-N, 9,318ftKB Weibore ST1	OD (in) 9 5/8 9 5/8 9 5/8 9 5/8 9 5/8 9 5/8 9 5/8 9 5/8 9 5/8 9 5/8	Run Date 11/21/2015 ID (in) 8.844 8.844 8.844 8.844 8.844 8.844 8.844	Wt (lbft) 40.00 40.00 40.00 40.00 40.00 40.00 40.00	Set Depth 14,791 Scratchers  Grade HCK-55	Top Conn Sz (in)	Top Thread LT&C LT&C LT&C LT&C LT&C LT&C LT&C LT&C	Len (ft) 0.00 0.00 4.33 70.84 4.526.09 78.11 1.22 75.34 1.64	Set Tension (kill)  Top Depth (MD) (fikB)  33  33  38  109  4,635  4,713  4,714  4,789	Btm Depth (MD) (ft/KB)  33  33  4,71  4,71  4,79  Btm Depth (MD) (ft/KB)
Intermediate Casing 1, Casing Description Intermediate Casing 1 Caninalizers 33  Jis Item 1 Casing Joint 1 Landing jt 1 Hanger + pup 2 Casing Joint 116 Casing Joint 2 Casing Joint 1 Float Collar 2 Casing Joint 1 Float Shoe Drilling Liner 1, Planne Casing Description Drilling Liner 1 Centralizers 0  Jis Item 0	Weibore Original Hole Des  d?-N, 9,318ftKB Weibore ST1	OD (in) 9 5/8 9 5/8 9 5/8 9 5/8 9 5/8 9 5/8 9 5/8 9 5/8 9 5/8 9 5/8	Run Date 11/21/2015 ID (in) 8.844 8.844 8.844 8.844 8.844 8.844 8.844 8.844 8.844	Wt (lb/ft) 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00	Set Depth 14,791 Scratchers  Grade HCK-55 HCK-75	Top Conn Sz (in)  MD) (RKB)	Top Thread LT&C LT&C LT&C LT&C LT&C LT&C LT&C LT&C	Len (ft) 0.00 0.00 4.33 70.84 4.526.09 78.11 1.22 75.34 1.64	Set Tension (kill)  Top Depth (MD) (flKB)  33  33  38  109  4,635  4,713  4,714  4,789  Set Tension (kill)  Top Depth (MD) (flKB)	Btm Depth (MD) (ft/KB)  33  33  4,71  4,71  4,79  Btm Depth (MD) (ft/KB)  4,474
Intermediate Casing 1, Casing Description Intermediate Casing 1 Caninalizers 33  Jis Item 1 Casing Joint 1 Landing jt 1 Hanger + pup 2 Casing Joint 116 Casing Joint 2 Casing Joint 1 Float Collar 2 Casing Joint 1 Float Shoe Drilling Liner 1, Planne Casing Description Drilling Liner 1 Centralizers 0  Jis Item 0  Item 0  Item 0	Weibore Original Hole Des  d?-N, 9,318ftKB Weibore ST1	OD (in) 9 5/8 9 5/8 9 5/8 9 5/8 9 5/8 9 5/8 9 5/8 9 5/8 9 5/8 9 5/8 9 5/8 9 5/8	Run Date 11/21/2015  ID (in) 8.844 8.844 8.844 8.844 8.844 8.844 8.844 8.844 8.844 8.844 8.884 8.875	Wt (lb/ft) 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 Wt (lb/ft) 29.70	Set Depth 14,791 Scratchers  Grade HCK-55	Top Conn Sz (in)  MD) (RKB)	Top Thread LT&C LT&C LT&C LT&C LT&C LT&C LT&C LT&C	Len (ft) 0.00 0.00 4.33 70.84 4.526.09 78.11 1.22 75.34 1.84	Set Tension (kill)  Top Depth (MD) (flKB)  33  33  38  109  4,635  4,713  4,714  4,789  Set Tension (kill)  Top Depth (MD) (flKB)  4,474	Btm Depth (MD) (ft/KB)  33  33  4,71  4,71  4,79  Btm Depth (MD) (ft/KB)  4,474  4,474
Intermediate Casing 1, Casing Description Intermediate Casing 1 Caninalizers 33  Jis Item 1 Casing Joint 1 Landling Jt 1 Hanger + pup 2 Casing Joint 116 Casing Joint 2 Casing Joint 1 Float Collar 2 Casing Joint 1 Float Shoe Drilling Liner 1, Planne Casing Description Drilling Liner 1 Contraizers 0  Jis Item 0 1 Casing Joint 1 So Stds 5*DP 1 Hanger Assm	Weibore Original Hole Des  d?-N, 9,318ftKB Weibore ST1	OD (in) 9 5/8 9 5/8 9 5/8 9 5/8 9 5/8 9 5/8 9 5/8 9 5/8 9 5/8 9 5/8 9 5/8 7 5/8	Run Date 11/21/2015  ID (in) 8.844 8.844 8.844 8.844 8.844 8.844 8.844 8.844 8.884  ID (in) 6.875 3.500 6.875 8.875	Wt (lb/lt) 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 10.50 29.70 29.70	Set Depth 1 4,791 Scratchers  Grade HCK-55 H	Top Conn Sz (in)  MD) (RKB)	Top Thread LT&C LT&C LT&C LT&C LT&C LT&C LT&C LT&C	Len (ft) 0.00 0.00 4.33 70.84 4.526.09 78.11 1.22 75.34 1.64 0.(ft/8) 4.5	Set Tension (kill)  Top Depth (MD) (flKB)  33  33  38  109  4,635  4,713  4,714  4,789  Set Tension (kill)  Top Depth (MD) (flKB)  4,474  4,474	Btm Depth (MD) (ft/KB)  33  33  31  101  4,633  4,711  4,714  4,781  4,79  Btm Depth (MD) (ft/KB)  4,474  4,474  4,505  9,176
Intermediate Casing 1, Casing Description Intermediate Casing 1 Centralizers 33  Jts Item 1 Casing Joint 1 Casing Joint 1 Landing it 1 Hanger + pup 2 Casing Joint 116 Casing Joint 2 Casing Joint 1 Float Collar 2 Casing Joint 1 Float Shoe Drilling Liner 1, Planne Casing Description Drilling Liner 1 Centralizers 0  Jts Item 0 1 Casing Joint 1 50 Stds 5"DP	Weibore Original Hole Des  d?-N, 9,318ftKB Weibore ST1	OD (in) 9 5/8 9 5/8 9 5/8 9 5/8 9 5/8 9 5/8 9 5/8 9 5/8 9 5/8 9 5/8 9 5/8 7 5/8	Run Date 11/21/2015  ID (in) 8.844 8.844 8.844 8.844 8.844 8.844 8.844 8.844 8.844 8.884  ID (in) 6.875 3.500 6.875 6.875 6.875	Wt (lb/ft) 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 10.50 29.70	Set Depth 1 4,791 Scratchers  Grade HCK-55 H	Top Conn Sz (in)  MD) (RKB)	Top Thread LT&C LT&C LT&C LT&C LT&C LT&C LT&C LT&C	Len (ft) 0.00 0.00 4.33 70.84 4.526.09 78.11 1.22 75.34 1.64 0.(ft/8) 4.5	Set Tension (kill)  Top Depth (MD) (flKB)  33  33  38  109  4,635  4,713  4,714  4,789  Set Tension (kill)  Top Depth (MD) (flKB)  4,474  4,474  4,474	Btm Depth (MD) (flKB)  33  33  4,638  4,713  4,714  4,789  4,791  ps)  Btm Depth (MD) (flKB)  4,474  4,505  9,178
Intermediate Casing 1, Casing Description Intermediate Casing 1 Centralizers 33  Jts Item 1 Casing Joint 1 Casing Joint 1 Landling it 1 Hanger + pup 2 Casing Joint 116 Casing Joint 2 Casing Joint 1 Float Collar 2 Casing Joint 1 Float Shoe Drilling Liner 1, Planne Casing Description Drilling Liner 1 Centralizers 0  Jts Item 0 1 Casing Joint 1 50 Stds 5"DP 1 Hanger Assm 109 Casing Joint	Weibore Original Hole Des  d?-N, 9,318ftKB Weibore ST1	OD (in) 9 5/8 9 5/8 9 5/8 9 5/8 9 5/8 9 5/8 9 5/8 9 5/8 9 5/8 9 5/8 9 5/8 7 5/8	Run Date 11/21/2015  ID (in) 8.844 8.844 8.844 8.844 8.844 8.844 8.844 8.844 8.884  ID (in) 6.875 3.500 6.875 8.875	Wt (lb/lt) 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 10.50 29.70 29.70	Set Depth   4,791 Scratchers  Grade HCK-55 H	Top Conn Sz (in)  MD) (RKB)	Top Thread LT&C LT&C LT&C LT&C LT&C LT&C LT&C LT&C	Len (ft) 0.00 0.00 4.33 70.84 4,526.09 78.11 1.22 75.34 1.64 0.(ftKB) 4.5	Set Tension (kill)  Top Depth (MD) (flKB)  33  33  38  109  4,635  4,713  4,714  4,789  Set Tension (kill)  Top Depth (MD) (flKB)  4,474  4,474  4,474  4,474  4,505  9,176  9,178	Btm Depth (MD) (fixB) 33 33 34 4,714 4,784 4,791 4,774 4,774 4,774 4,774 4,774 4,774 4,774 4,774 4,774 4,774 4,774 4,774 4,775 9,178 9,225
Intermediate Casing 1, Casing Description Intermediate Casing 1 Centralizers 33  Jts Item 1 1 Casing Joint 1 Landling it 1 Hanger + pup 2 Casing Joint 116 Casing Joint 2 Casing Joint 1 Float Collar 2 Casing Joint 1 Float Shoe Drilling Liner 1, Planne Casing Description Drilling Liner 1 Centralizers 0  Jts Item 0 1 Casing Joint 1 50 Stds 5*DP 1 Hanger Assm 109 Casing Joint 1 Landing Collar	Weibore Original Hole Des  d?-N, 9,318ftKB Weibore ST1	OD (in) 9 5/8 9 5/8 9 5/8 9 5/8 9 5/8 9 5/8 9 5/8 9 5/8 9 5/8 9 5/8 9 5/8 7 5/8 7 5/8	Run Date 11/21/2015  ID (in) 8.844 8.844 8.844 8.844 8.844 8.844 8.844 8.844 8.844 8.884  ID (in) 6.875 3.500 6.875 6.875 6.875	Wt (lb/ft) 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 29.70 19.50 29.70 29.70	Set Depth # 4,791 Scratchers  Grade HCK-55 HCK-10 HCK-55 HCK-10 H	Top Conn Sz (in)  MD) (RKB)	Top Thread LT&C LT&C LT&C LT&C LT&C LT&C LT&C LT&C	Len (ft) 0.00 0.00 4.33 70.84 4,526.09 78.11 1.22 75.34 1.64 0.(fik/B) 4.5	Set Tension (kill)  Top Depth (MD) (flKB)  33  33  38  109  4,635  4,713  4,714  4,789  Set Tension (kill)  Top Depth (MD) (flKB)  4,474  4,474  4,474  4,474  4,505  9,176	Btm Depth (MD) (flKB)  33  33  4,638  4,713  4,714  4,789  4,791  ps)  Btm Depth (MD) (flKB)  4,474  4,505  9,178



### **Cement Summary**

#### **Production Casing Cement**

Well N SALA 001F	ADO DRAW 29-26-33 FED COM	Salado Draw 2	9-26-33 Fed		Field Name WILDCA	T (HOBBS	3)	Business Mid-Co			
Broun	Elevation (ft) Original RKB (ft)	Current RKB Elevation	on			8642 A 6169		Mudline	Elevation (ft)   Wate	r Depth (ft)	
	item Des Guide Shoe	OD (in) 7 5/8	tD (in) 6.800	Wt (lb/ft)	Grade P-110	Top Conn S (in)	Top Thread	Len (ft)	Top Depth (MD) (ftKB) 9,316	Btm Depth (MD) (ftKB) 9,31	
	uction Casing, Planned?-N, 16,4 Description Wellborn		un Date		Set Depth (	MD/ (NKR)	Stick Up	n(D)	Set Tension (k	ins)	
rod	uction Casing ST1		/22/2016		16,452	mD) (viiiD)	683.4	(tria)	Det rension (k		
entra	fizers				Scratchers						
Jts	Item Des	OD (in)	ID (in)	Wt (ib/ft)	Grade	Top Conn S	Top Thread	Len (ft)	Top Depth (MD) (ftKB)	Btm Depth (MD)	
	Marker Joint	5	4.276	18.00	P-110		Tenans 521	19.08	-683	-66	
16	Casing Joint	5	4.276	18.00	P-110		Tenans 521	696.84	-664	3	
1	Hanger	5 1/2	4 276		P-110		Tenans	0.25	33	3	
-	Pup Joint	5 1/2	4.276	20.00	P-110		Tenaris	4.35	33	3	
1	XO	5 1/2	4.276	18.00	P-110	-	521 Tenans	1.84	37	3	
							521				
	Casing Joint	5	4.276		P-110		Tenaris 521	8,672.91	39	8,71	
1	Marker Joint	5	4.276	18.00	P-110		Tenaris 521	9.61	8.712	8,72	
74	Casing Joint	5	4 276	18.00	P-110		Tenaris 521	7,552.64	8,721	16,27	
1	Pup Jt	5	4.276	18.00	P-110		Tenaris 521	9 66	16.274	16,28	
1	RSI Tool	5	4.276		P-110		Tenaris 521	6.48	16,284	16,29	
1	Pup Jt	5	4.276	18.00	P-110		Tenaris 521	9.60	16,290	16,30	
1	Casing Joint	5	4.276		P-110		Tenaris 521	43.18	16,300	16,34	
1	Pup Jt	5	4 276	18.00			Tenaris 521	9.68	16,343	16,35	
	Landing collar	5	4.276	18.00			Tenaris 521	1.40	16,353	16,35	
	Casing Joint	5	4.276	18.00			Tenaris 521	45.59	16,354	16,40	
	Float collar	5	4.276	18.00			Tenaris 521	1 96	16,400	16,40	
1	XRV Vibrator Sub	5	4.276		P-110		Tenaris 521	2.36	16,402	16,40	
1	Casing Joint	5	4 276	18.00			Tenaris 521	45.60	16,404	16,45	
1	Float shoe	5	4.276	18.00	P-110		Tenaris 521	2.36	16,450	16,45	
	uction Casing Cement, Casing,	NAME OF TAXABLE PARTY.	ementing End Da	te			Welbore				
/23/	2016	1/	/23/2016				Origina	l Hole			
	tion Method ressure ent	Good returns	Bumped plug	at calculate	d displace	ment					
	328.0-16,467.0ftKB							in the second			
,328	16,467	Popth (ftKB) Full Return?			Vol Cement Ret (bbl) Top Plug?			Bottom Plug?			
.5	rump Rate (bbl/min) Final Put 6.5	mp Rate (bbl/min)	Avg 5.5	Avg Pump Rate (bbl/min)		Fina 2.0	Pump Pressure (ps 08.0		Plug Bump Pressure (psi) 2,450.0		
ipe R		eation Stroke Length (ft)		procation Rate (	spm)	Pipe	Rotated?		Pipe RPM (rpm)		
Depth '	Tagged (MD) (ftKB) Tag Met	nod	Dep	th Plug Dailed O	ut To (ftKB)	N Dritt	Out Diameter (in)		Drill Out Date		
200						DATE OF THE PARTY		Calculation			



## **Cement Summary**

#### **Production Casing Cement**

Well Name SALADO DRAW 29-26-33 FED COM 001H		Salado Draw 29-26	33 Fed	Field Name WILDCAT (HOBBS)		Business Unit Mid-Continent		
Ground Elevation (ft) Origin	al RKB (ft)	Current RKB Elevation				Mud Line Elevation (ft)   Water Depth (ft)		
Spacer								
Fluid Type Spacer	Fluid De		Quantity (sacks)	C	ass	Volume Pumped (bbl)		
Estimated Top (ftKB) 3,513.0	3,950.	d Bottom Depth (ftKB)	Percent Excess Pump	ped (%)	eld (ft³/sack)	Fluid Mix Ratio (gal/sack)		
ree Water (%)	Density ( 10.00	lb/gal)	Zero Gel Time (min)	Th	hickening Time (hr)	1st Compressive Strength (psi)		
Cement Fluid Additives	THE PERSON NAMED IN COLUMN 2 IS NOT THE OWNER.							
The Date of the Control of the Contr	Add		Ту	pe		Conc		
ead								
uid Type ead	Fluid De: Poz:H		Quantity (sacks) 232		ass	Volume Pumped (bbl) 111.0		
stmated Top (fiKB) 3,950.0	8,843.	NAME OF TAXABLE PARTY.	Percent Excess Pump 0.0	2.	ald (ft <sup>s</sup> /sack) .69	Fluid Mix Ratio (gal/sack) 15.77		
ree Water (%)	Density ( 11.50	lb/gal)	Zero Gel Time (min)	Th	nickening Time (hr)	1st Compressive Strength (psi)		
ement Fluid Additives								
	Add		Ту	pe		Conc		
	<del>, , , , , , , , , , , , , , , , , , , </del>							
ead	Is. as	-1-1-	In and to the	To				
ead			Quantity (sacks) 575		ass	Volume Pumped (bbl) 166.0		
stimated Top (ffKB) ,843.0	15,449		Percent Excess Pumped (%) 30.0		eld (ff³/sack) .62	Fluid Mix Ratio (gal/sack) 8.71		
ree Water (%)	Density (	(b/gal)	Zero Gel Time (min)	Th	nickening Time (hr)	1st Compressive Strength (psi)		
	1000							
ement Fluid Additives					The second secon			
Cement Fluid Additives			Ту	pe		Conc		
			Туі	pe		Conc		
all	Add							
all uid Type ail	Add Fluid Des Class	H	Quantity (sacks)	Ct.		Volume Pumped (bbl) 39.0		
all uid Type ail stimated Top (ffKB) 5,449.0	Add Fluid Des Class	H d Bottom Depth (ftKB)	Quantity (sacks)	Ch H		Volume Pumped (bbl)		
all uid Type ail stimated Top (ffKB) 5,449.0	Add Fluid De: Class Estimate	H d Bottom Depth (ftKB)	Quantity (sacks) 100 Percent Excess Pump	Ct. H	eld (fl³/sack)	Volume Pumped (bbi) 39.0 Fluid Mix Ratio (gal/sack)		
Call uid Type ail stimated Top (ftKB) 5,449.0 ree Water (%)	Fluid Dec Class Estimate 16,467 Density (15.00	H d Bottom Depth (ftKB)	Quantity (sacks) 100 Percent Excess Pump 30.0	Ct. H	eld (ft³/sack)	Volume Pumped (bbi) 39.0 Fluid Mix Ratio (gal/sack) 9.55		
Call uid Type ail stirmated Top (ffKB) 5,449.0 ree Water (%)	Fluid Dec Class Estimate 16,467 Density (15.00	H d Bottom Depth (ftKB)	Quantity (sacks) 100 Percent Excess Pump 30.0	Cit   H   H   Y(t   2   T   T   T   T   T   T   T   T   T	eld (ft³/sack)	Volume Pumped (bbi) 39.0 Fluid Mix Ratio (gal/sack) 9.55		
all uid Type ail stmated Top (flKB) 5,449.0 ree Water (%) Cement Fluid Additives	Fluid Dec Class Estimate 16,467 Density 15.00	H d Bottom Depth (ftKB)	Quantity (sacks) 100 Percent Excess Pump 30.0 Zero Gel Time (min)	Cit   H   H   Y(t   2   T   T   T   T   T   T   T   T   T	eld (ft³/sack)	Volume Pumped (bbl) 39.0 Fluid Mix Ratio (gal/sack) 9.55 1st Compressive Strength (psi)		
all uid Type aif stimated Top (ftKB) 5,449.0 ee Water (%) ement Fluid Additives	Fluid Dec Class Estimate 16,467 Density 15.00	H d Bottom Depth (ffKB)	Quantity (sacks) 100 Percent Excess Pump 30.0 Zero Gel Time (min)	Cit   H   Property	eld (ft³/sack)	Volume Pumped (bbl) 39.0 Fluid Mix Ratio (gal/sack) 9.55 1st Compressive Strength (psi)  Conc		
Call uid Type Cail stmated Top (ftKB) 5,449.0 ree Water (%) Cement Fluid Additives Displacement uid Type Displacement	Fluid Dec Class Estimate 16,467 Density (15.00 Add	H d Bottom Depth (ffKB) .0 (b/gal) scripton s Acetic Acid	Quantity (sacks) 100 Percent Excess Pump 30.0 Zero Gel Time (min) Tyl	Ped (%) Ying 2. The pe	eld (h²/sack) 18 aickening Time (hr)	Volume Pumped (bbl) 39.0 Fluid Mix Ratio (gal/sack) 9.55 1st Compressive Strength (psi)  Conc  Volume Pumped (bbl) 291.0		
all uid Type ail stmated Top (ftKB) 5,449.0 ree Water (%) rement Fluid Additives	Fluid Dec Class Estimate 16,467 Density (15.00 Add	H d Bottom Depth (fiKB)  O (b/gal)	Quantity (sacks) 100 Percent Excess Pump 30.0 Zero Gel Time (min)	Ped (%) Ying 2. The pe	eld (h²/sack) 18 iickening Time (hr)	Volume Pumped (bbl) 39.0 Fluid Mix Ratio (gal/sack) 9.55 1st Compressive Strength (psi)  Conc		
Call uid Type ail stimated Top (ftKB) 5,449.0 ree Water (%) Coment Fluid Additives Displacement uid Type Displacement stimated Top (ftKB)	Fluid Dec Class Estimate 16,467 Density (15.00 Add	H d Bottom Depth (ffKB) .0 b/gal)  scription s Acetic Acid d Bottom Depth (ffKB)	Quantity (sacks) 100 Percent Excess Pump 30.0 Zero Gel Time (min) Tyl	Cit   H   H   H   H   H   H   H   H   H	eld (h²/sack) 18 aickening Time (hr)	Volume Pumped (bbl) 39.0 Fluid Mix Ratio (gal/sack) 9.55 1st Compressive Strength (psi)  Conc  Volume Pumped (bbl) 291.0		
Cement Fluid Additives  Fall	Add  Fluid Dec Class Estimate 16,467 Density ( 15.00  Add  Fluid Dec 20 bbl: Estimate Density (	H d Bottom Depth (ffKB) .0 b/gal)  scription s Acetic Acid d Bottom Depth (ffKB)	Quantity (sacks) 100 Percent Excess Pump 30.0 Zero Gel Time (min)  Tyl  Quantity (sacks) Percent Excess Pump	Cit   H   Present   Pres	eld (ft³/sack) 18 ickening Time (hr) ass	Volume Pumped (bbi) 39.0 Fluid Mix Ratio (gal/sack) 9.55 1st Compressive Strength (psi)  Conc  Volume Pumped (bbi) 291.0 Fluid Mix Ratio (gal/sack)		