

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTNM OIL CONSERVATION
CARLSBAD DISTRICT
Artesia
APR 04 2016
RECEIVEDFORM APPROVED
OMB No. 1004-0137
Expires: July 31, 2010

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No.
NMNM226341a. Type of Well ☒ Oil Well ☐ Gas Well ☐ Dry ☐ Other
b. Type of Completion ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resvr.
Other _____

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No.

2. Name of Operator
RKI EXPLORATION & PRODUCTION-Email: hbrehm@rkixp.com

Contact: HEATHER BREHM

8. Lease Name and Well No.
EAST PECOS FEDERAL COM 22 5H3. Address 210 PARK AVE STE 900
OKLAHOMA CITY, OK 731023a. Phone No. (include area code)
Ph: 405-996-57699. API Well No.
30-015-42270

4. Location of Well (Report location clearly and in accordance with Federal requirements)*

At surface SESW 251FSL 2185FWL 32.034440 N Lat, 103.973590 W Lon

At top prod interval reported below SESW 32.022980 N Lat, 103.973420 W Lon

At total depth NENW 283FNL 2203FWL 32.034010 N Lat, 103.973530 W Lon

10. Field and Pool, or Exploratory
CORRAL CANYON;SOUTH11. Sec., T., R., M., or Block and Survey
or Area Sec 22 T26S R29E Mer NMP12. County or Parish
EDDY13. State
NM14. Date Spudded
06/23/201515. Date T.D. Reached
07/14/201516. Date Completed
☐ D & A ☒ Ready to Prod.
08/02/201517. Elevations (DF, KB, RT, GL)*
2881 GL18. Total Depth: MD 13031
TVD 862119. Plug Back T.D.: MD 12934
TVD 861720. Depth Bridge Plug Set: MD
TVD21. Type Electric & Other Mechanical Logs Run (Submit copy of each)
CEMENT, POR, RES22. Was well cored? ☒ No ☐ Yes (Submit analysis)
Was DST run? ☒ No ☐ Yes (Submit analysis)
Directional Survey? ☐ No ☒ Yes (Submit analysis)

23. Casing and Liner Record (Report all strings set in well)

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
17.500	13.375 J55	54.5	0	387		500	119	0	
12.250	9.625 J55	40.0	0	2878		1000	321	0	
8.750	5.500 P110	20.0	0	13031	5023	2410	867	2580	

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2.875	8471	8462						

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) 2ND BONE SPRING	9016	12888	12736 TO 12888	3.130	512	ACTIVE
B)						
C)						
D)						

26. Perforation Record

27. Acid, Fracture, Treatment, Cement Squeeze, Etc.

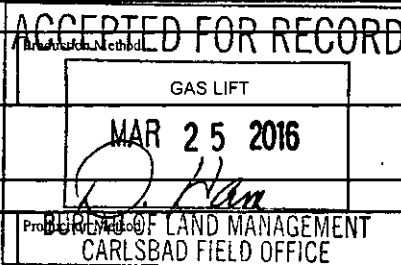
Depth Interval	Amount and Type of Material
9016 TO 12888	SLICKWATER, 15% HCL, LINEAR GEL/ CROSS LINK, 20/40 WHITE, 20/40 SLC/TLR=45,298 BBLS /PROP=2,945,382

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity
08/02/2015	08/16/2015	24	→	539.0	849.0	820.0	46.0	
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status
33/64	SI	520.0	→	539	849	820	1575	POW

28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity
			→					
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status
	SI		→					



(See Instructions and spaces for additional data on reverse side)

ELECTRONIC SUBMISSION #316518 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED **

Reclamation Due: 2/16/16

AB

28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
			→						

28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
			→						

29. Disposition of Gas(Sold, used for fuel, vented, etc.)
SOLD

30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top
					Meas. Depth
2ND BONE SPRING	8390	12888	OIL-GAS	RUSTLER	375
				TOP SALT	2172
				BTM SALT	2672
				DELAWARE/BELL CANYON	2930
				CHERRY CANYON	3934
				BRUSHY CANYON	5011
				BONE SPRING	6680
				1ST BONE SPRING	7590

32. Additional remarks (include plugging procedure):
2ND BONE SPRING -FORMATION TOP 8357'

33. Circle enclosed attachments:

- | | | | |
|---|--------------------|---------------|-----------------------|
| 1. Electrical/Mechanical Logs (1 full set req'd.) | 2. Geologic Report | 3. DST Report | 4. Directional Survey |
| 5. Sundry Notice for plugging and cement verification | 6. Core Analysis | 7. Other: | |

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions):

Electronic Submission #316518 Verified by the BLM Well Information System.
For RKI EXPLORATION & PRODUCTION, sent to the Carlsbad
Committed to AFMSS for processing by DEBORAH HAM on 12/22/2015 ()

Name (please print) HEATHER BREHM

Title REGULATORY ANALYST

Signature (Electronic Submission)

Date 09/15/2015

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.

**** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ****

Operator / Customer:	RKI Exploration & Production LLC	Date:	14-Jul-15
Well Name and No.:	East Pecos State 22-SH	MWD Operator:	Ranger Directional
County, State:	Eddy Co, New Mexico	Hole Size:	8 3/4
Drlg. Contractor:	Silver Oak 14	Location:	22-26S-29E
Field or Block No.:	East Pecos	Survey Reference:	Grid North
API No.:	30-015-42270	Declination:	7.08°
Permit No (AFE):		Job No.:	RDS 15-020

Target Coordinates			Final Survey Closure	
TVD	N / -S	E / -W	Distance	Azimuth
8,599.00'	4,799.90'	-52.70'	13,162.10'	359.37°

Tie-In Survey: Ranger Directional						Sectional Method Survey Calculations				Rates / 100' M.D.	
Surveying Company: Ranger Directional						Proposed Azimuth: 359.37°				Build or	R or -L
Sur. No.	M.D.	INCL.	AZM.	TVD	N / -S	E / -W	SECT.	-DLS / 100'			Turn
TIE - IN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1	100.00	1.70	182.90	99.99	-1.48	-0.08	-1.48	1.70	1.70	182.90	
2	200.00	1.60	178.80	199.94	-4.36	-0.12	-4.36	0.15	-0.10	-4.10	
3	300.00	1.20	179.20	299.91	-6.80	-0.08	-6.80	0.40	-0.40	0.40	
4	400.00	1.10	174.30	399.89	-8.80	0.03	-8.80	0.14	-0.10	-4.90	
5	500.00	1.10	159.80	499.88	-10.66	0.46	-10.66	0.28	0.00	-14.50	
6	600.00	1.50	142.00	599.85	-12.59	1.60	-12.61	0.56	0.40	-17.80	
7	700.00	1.50	139.20	699.82	-14.61	3.26	-14.65	0.07	0.00	-2.80	
8	800.00	1.40	132.50	799.78	-16.43	5.01	-16.48	0.20	-0.10	-6.70	
9	900.00	1.40	135.70	899.75	-18.13	6.77	-18.20	0.08	0.00	3.20	
10	1000.00	1.60	134.40	999.72	-19.98	8.62	-20.07	0.20	0.20	-1.30	
11	1100.00	1.40	127.40	1099.69	-21.70	10.59	-21.81	0.27	-0.20	-7.00	
12	1200.00	1.50	128.10	1199.65	-23.25	12.59	-23.39	0.10	0.10	0.70	
13	1300.00	1.10	140.60	1299.63	-24.80	14.23	-24.95	0.49	-0.40	12.50	
14	1400.00	0.90	120.80	1399.61	-25.94	15.51	-26.11	0.40	-0.20	-19.80	
15	1500.00	0.90	146.30	1499.60	-27.00	16.62	-27.18	0.40	0.00	25.50	
16	1600.00	0.70	176.50	1599.59	-28.26	17.09	-28.45	0.46	-0.20	30.20	
17	1700.00	0.80	195.70	1699.58	-29.54	16.94	-29.73	0.27	0.10	19.20	
18	1800.00	0.80	227.40	1799.57	-30.69	16.24	-30.86	0.44	0.00	31.70	
19	1900.00	1.00	221.10	1899.56	-31.82	15.15	-31.98	0.22	0.20	-6.30	
20	2000.00	0.70	207.90	1999.55	-33.01	14.29	-33.17	0.36	-0.30	-13.20	
21	2100.00	0.90	208.80	2099.54	-34.24	13.63	-34.39	0.20	0.20	0.90	
22	2200.00	0.90	143.30	2199.53	-35.56	13.72	-35.71	0.97	0.00	-65.50	
23	2300.00	3.30	104.70	2299.46	-36.92	16.97	-37.11	2.66	2.40	-38.60	
24	2400.00	3.20	109.40	2399.30	-38.58	22.39	-38.82	0.28	-0.10	4.70	
25	2500.00	4.20	103.66	2499.09	-40.37	28.58	-40.68	1.07	1.00	-5.74	
26	2600.00	5.60	103.30	2598.72	-42.36	36.89	-42.76	1.40	1.40	-0.36	
27	2700.00	5.60	99.60	2698.24	-44.29	46.45	-44.80	0.36	0.00	-3.70	
28	2800.00	4.40	96.30	2797.86	-45.53	55.07	-46.13	1.23	-1.20	-3.30	
29	2850.00	3.60	98.30	2847.74	-45.97	58.53	-46.61	1.62	-1.60	4.00	
30	2938.00	2.60	95.90	2935.61	-46.57	63.25	-47.26	1.15	-1.14	-2.73	
21	3032.00	0.60	309.00	3029.58	-46.48	64.99	-47.19	3.32	-2.13	226.70	
22	3126.00	0.50	170.20	3123.58	-46.57	64.68	-47.28	1.10	-0.11	-147.66	
23	3221.00	0.30	34.20	3218.58	-46.78	64.89	-47.49	0.78	-0.21	-143.16	
24	3316.00	0.40	254.00	3313.58	-46.66	64.71	-47.37	0.69	0.11	231.37	
25	3409.00	0.30	82.10	3406.58	-46.72	64.64	-47.43	0.75	-0.11	-184.84	
26	3597.00	0.20	122.30	3594.58	-46.83	65.40	-47.54	0.10	-0.05	21.38	
27	3789.00	0.40	216.00	3786.57	-47.55	65.29	-48.26	0.24	0.10	48.80	
28	3977.00	0.50	303.00	3974.57	-47.63	64.22	-48.33	0.33	0.05	46.28	
29	4165.00	0.50	43.40	4162.57	-46.59	64.09	-47.29	0.41	0.00	53.40	
30	4352.00	0.60	281.50	4349.56	-45.80	63.69	-46.50	0.51	0.05	-65.19	
31	4511.00	0.40	235.70	4508.56	-45.95	62.42	-46.63	0.27	-0.13	-28.81	
32	4669.00	0.50	6.00	4666.55	-45.57	62.04	-46.25	0.52	0.06	-145.38	
33	4858.00	0.40	49.00	4855.55	-44.32	62.62	-45.01	0.18	-0.05	22.75	

Operator / Customer:	RKI Exploration & Production LLC	Date:	14-Jul-15
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County, State:	Eddy Co, New Mexico	Hole Size:	8 3/4
Drlg. Contractor:	Silver Oak 14	Location:	22-26S-29E
Field or Block No.:	East Pecos	Survey Reference:	Grid North
API No.:	30-015-42270	Declination:	7.08°
Permit No (AFE):		Job No.:	RDS 15-020

Target Coordinates			Final Survey Closure	
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Surveying Company: Ranger Directional						Proposed Azimuth: 359.37°			Build or	R or -L
Sur. No.	M.D.	INCL.	AZM.	TVD	N / -S	E / -W	SECT.	DLS / 100'		Turn
TIE - IN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
34	5049.00	0.40	113.80	5046.55	-44.15	63.73	-44.85	0.22	0.00	33.93
35	5269.00	0.20	45.50	5266.54	-44.19	64.71	-44.90	0.17	-0.09	-31.05
36	5460.00	0.10	49.70	5457.54	-43.85	65.07	-44.56	0.05	-0.05	2.20
37	5649.00	0.20	137.10	5646.54	-43.99	65.42	-44.70	0.12	0.05	46.24
38	5841.00	0.10	211.10	5838.54	-44.37	65.57	-45.09	0.10	-0.05	38.54
39	6030.00	0.10	342.10	6027.54	-44.36	65.43	-45.08	0.10	0.00	69.31
40	6249.00	0.10	74.40	6246.54	-44.13	65.56	-44.84	0.07	0.00	42.15
41	6439.00	0.20	82.10	6436.54	-44.04	66.04	-44.76	0.05	0.05	4.05
42	6627.00	0.20	8.20	6624.54	-43.67	66.42	-44.39	0.13	0.00	-39.31
43	6817.00	0.40	89.90	6814.54	-43.34	67.13	-44.07	0.22	0.11	43.00
44	7009.00	0.30	263.30	7006.54	-43.39	67.30	-44.13	0.36	-0.05	90.31
45	7189.00	0.40	175.10	7186.53	-44.07	66.88	-44.81	0.27	0.06	-49.00
46	7387.00	0.50	193.40	7384.53	-45.60	66.74	-46.33	0.09	0.05	9.24
47	7578.00	0.50	263.90	7575.52	-46.50	65.72	-47.22	0.30	0.00	36.91
48	7767.00	0.10	153.30	7764.52	-46.74	64.97	-47.45	0.29	-0.21	-58.52
49	7885.00	0.20	282.90	7882.52	-46.78	64.82	-47.49	0.23	0.08	109.83
50	7907.00	0.40	264.70	7904.52	-46.78	64.71	-47.49	1.00	0.91	-82.73
51	7926.00	0.30	250.80	7923.52	-46.80	64.59	-47.51	0.69	-0.53	-73.16
52	7958.00	1.10	329.60	7955.52	-46.57	64.36	-47.27	3.38	2.50	246.25
53	7990.00	3.60	340.60	7987.49	-45.35	63.87	-46.05	7.90	7.81	34.38
54	8021.00	6.20	348.40	8018.37	-42.80	63.21	-43.49	8.64	8.39	25.16
55	8053.00	9.10	354.60	8050.08	-38.58	62.62	-39.27	9.41	9.06	19.38
56	8084.00	12.00	356.90	8080.56	-32.92	62.22	-33.61	9.45	9.35	7.42
57	8116.00	14.50	357.30	8111.70	-25.60	61.85	-26.28	7.82	7.81	1.25
58	8147.00	17.10	357.80	8141.53	-17.17	61.49	-17.84	8.40	8.39	1.61
59	8179.00	19.60	358.30	8171.90	-7.10	61.15	-7.77	7.83	7.81	1.56
60	8211.00	22.50	358.70	8201.76	4.39	60.85	3.72	9.07	9.06	1.25
61	8242.00	25.20	359.00	8230.11	16.92	60.60	16.25	8.72	8.71	0.97
62	8274.00	27.90	359.00	8258.73	31.22	60.35	30.55	8.44	8.44	0.00
63	8306.00	30.30	357.20	8286.69	46.77	59.83	46.11	7.98	7.50	-5.63
64	8338.00	32.00	355.60	8314.08	63.29	58.78	62.64	5.91	5.31	-5.00
65	8369.00	34.50	355.40	8340.00	80.23	57.45	79.60	8.07	8.06	-0.65
66	8400.00	37.80	355.10	8365.03	98.45	55.93	97.83	10.66	10.65	-0.97
67	8432.00	41.10	355.20	8389.74	118.71	54.22	118.11	10.31	10.31	0.31
68	8463.00	44.60	355.70	8412.46	139.72	52.55	139.14	11.34	11.29	1.61
69	8495.00	48.00	356.00	8434.56	162.80	50.87	162.23	10.65	10.63	0.94
70	8527.00	51.90	356.10	8455.15	187.23	49.19	186.68	12.19	12.19	0.31
71	8558.00	55.20	356.00	8473.57	212.10	47.47	211.57	10.65	10.65	-0.32
72	8590.00	57.20	355.00	8491.37	238.61	45.38	238.09	6.77	6.25	-3.13
73	8622.00	59.10	354.50	8508.25	265.67	42.89	265.19	6.08	5.94	-1.56
74	8653.00	61.50	354.20	8523.61	292.47	40.24	292.01	7.79	7.74	-0.97
75	8685.00	63.70	354.30	8538.34	320.73	37.39	320.30	6.88	6.88	0.31
76	8717.00	65.50	354.20	8552.06	349.49	34.50	349.09	5.63	5.62	-0.31

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Surveying Company: Ranger Directional						Proposed Azimuth: 359.37°			Build or	R or -L
Sur. No.	M.D.	INCL.	AZM.	TVD	N / -S	E / -W	SECT.	DLS / 100'		Turn
TIE - IN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
77	8748.00	67.60	354.10	8564.40	377.78	31.60	377.41	6.78	6.77	-0.32
78	8780.00	69.20	354.30	8576.18	407.38	28.59	407.05	5.03	5.00	0.62
79	8812.00	70.00	354.70	8587.33	437.24	25.72	436.93	2.76	2.50	1.25
80	8844.00	71.60	355.50	8597.85	467.35	23.14	467.06	5.53	5.00	2.50
81	8875.00	73.70	356.20	8607.10	496.86	21.00	496.60	7.11	6.77	2.26
82	8907.00	76.00	356.60	8615.46	527.68	19.06	527.44	7.29	7.19	1.25
83	8925.00	76.90	357.80	8619.68	545.16	18.21	544.93	8.19	5.00	6.67
84	8957.00	78.50	357.50	8626.50	576.40	16.92	576.18	5.08	5.00	-0.94
85	8986.00	79.90	357.50	8631.93	604.86	15.68	604.65	4.83	4.83	0.00
86	9018.00	81.30	357.50	8637.16	636.40	14.30	636.20	4.38	4.37	0.00
87	9050.00	82.40	357.50	8641.69	668.04	12.92	667.86	3.44	3.44	0.00
88	9081.00	85.00	357.30	8645.09	698.82	11.52	698.65	8.41	8.39	-0.65
89	9113.00	87.10	357.40	8647.30	730.71	10.05	730.55	6.57	6.56	0.31
90	9144.00	89.90	357.90	8648.11	761.67	8.78	761.53	9.18	9.03	1.61
91	9176.00	90.80	358.20	8647.91	793.65	7.69	793.52	2.96	2.81	0.94
92	9207.00	91.30	358.30	8647.35	824.63	6.74	824.51	1.64	1.61	0.32
93	9239.00	91.80	358.30	8646.48	856.60	5.79	856.49	1.56	1.56	0.00
94	9271.00	92.10	358.20	8645.39	888.57	4.82	888.46	0.99	0.94	-0.31
95	9303.00	92.20	358.10	8644.19	920.53	3.78	920.43	0.44	0.31	-0.31
96	9334.00	92.60	357.90	8642.89	951.48	2.70	951.40	1.44	1.29	-0.65
97	9430.00	92.10	357.90	8638.96	1047.34	-0.81	1047.28	0.52	-0.52	0.00
98	9524.00	92.60	358.90	8635.10	1141.22	-3.43	1141.19	1.19	0.53	1.06
99	9619.00	91.60	359.60	8631.62	1236.15	-4.68	1236.13	1.28	-1.05	0.74
100	9714.00	91.00	0.20	8629.47	1331.12	-4.84	1331.10	0.89	-0.63	0.63
101	9810.00	92.30	0.20	8626.70	1427.08	-4.51	1427.04	1.35	1.35	0.00
102	9904.00	90.40	0.30	8624.49	1521.05	-4.10	1521.00	2.02	-2.02	0.11
103	10000.00	91.00	0.00	8623.31	1617.04	-3.85	1616.99	0.70	0.62	-0.31
104	10095.00	90.20	0.00	8622.32	1712.04	-3.85	1711.97	0.84	-0.84	0.00
105	10190.00	90.70	0.00	8621.57	1807.03	-3.85	1806.97	0.53	0.53	0.00
106	10287.00	88.60	358.60	8622.17	1904.02	-5.03	1903.96	2.60	-2.16	-1.44
107	10382.00	88.80	358.30	8624.32	1998.96	-7.60	1998.92	0.38	0.21	-0.32
108	10477.00	89.70	358.20	8625.56	2093.90	-10.50	2093.89	0.95	0.95	-0.11
109	10572.00	89.80	357.70	8625.98	2188.84	-13.90	2188.86	0.54	0.11	-0.53
110	10668.00	90.50	357.70	8625.73	2284.76	-17.75	2284.82	0.73	0.73	0.00
111	10762.00	88.10	358.20	8626.88	2378.69	-21.11	2378.78	2.61	-2.55	0.53
112	10857.00	89.00	359.40	8629.28	2473.63	-23.10	2473.74	1.58	0.95	1.26
113	10952.00	89.40	359.40	8630.61	2568.62	-24.10	2568.73	0.42	0.42	0.00
114	11046.00	89.80	359.70	8631.26	2662.61	-24.83	2662.73	0.53	0.43	0.32
115	11141.00	91.10	0.00	8630.52	2757.61	-25.08	2757.72	1.40	1.37	0.32
116	11237.00	92.40	0.10	8627.58	2853.56	-25.00	2853.66	1.36	1.35	0.10
117	11332.00	90.40	359.60	8625.26	2948.53	-25.25	2948.63	2.17	-2.11	-0.53
118	11426.00	91.00	359.40	8624.12	3042.52	-26.07	3042.62	0.67	0.64	-0.21
119	11522.00	92.40	359.20	8621.27	3138.46	-27.24	3138.57	1.47	1.46	-0.21

Operator / Customer:	RKI Exploration & Production LLC	Date:	14-Jul-15
Well Name and No.:	East Pecos State 22-SH	MWD Operator:	Ranger Directional
County, State:	Eddy Co, New Mexico	Hole Size:	8 3/4
Drlg. Contractor:	Silver Oak 14	Location:	22-26S-29E
Field or Block No.:	East Pecos	Survey Reference:	Grid North
API No.:	30-015-42270	Declination:	7.08°
Permit No (AFE):		Job No.:	RDS 15-020

Target Coordinates			Final Survey Closure	
TVD	N / -S	E / -W	Distance	Azimuth
8,599.00'	4,799.90'	-52.70'	13,162.10'	359.37°

Tie-In Survey: Ranger Directional						Sectional Method Survey Calculations			Rates / 100' M.D.	
Surveying Company: Ranger Directional						Proposed Azimuth: 359.37°			Build or	R or -L
Sur. No.	M.D.	INCL.	AZM.	TVD	N / -S	E / -W	SECT.	DLS / 100'		Turn
TIE - IN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120	11616.00	89.70	0.20	8619.54	3232.44	-27.73	3232.55	3.06	-2.87	1.06
121	11711.00	89.90	0.70	8619.88	3327.43	-26.99	3327.53	0.57	0.21	0.53
122	11806.00	92.40	1.60	8617.97	3422.39	-25.08	3422.46	2.80	2.63	0.95
123	11901.00	92.40	1.30	8613.99	3517.27	-22.68	3517.31	0.32	0.00	-0.32
124	11996.00	91.10	1.40	8611.09	3612.20	-20.44	3612.21	1.37	-1.37	0.11
125	12091.00	89.60	1.30	8610.51	3707.17	-18.20	3707.15	1.58	-1.58	-0.11
126	12186.00	89.50	359.60	8611.26	3802.16	-17.46	3802.12	1.79	-0.11	-1.79
127	12280.00	88.40	359.50	8612.98	3896.14	-18.20	3896.10	1.18	-1.17	-0.11
128	12375.00	88.70	0.20	8615.38	3991.11	-18.44	3991.07	0.80	0.32	0.74
129	12470.00	90.20	0.60	8616.29	4086.10	-17.78	4086.05	1.63	1.58	0.42
130	12565.00	89.10	0.10	8616.88	4181.09	-17.20	4181.03	1.27	-1.16	-0.53
131	12660.00	89.60	359.40	8617.95	4276.09	-17.62	4276.02	0.91	0.53	-0.74
132	12755.00	90.20	358.60	8618.12	4371.07	-19.27	4371.02	1.05	0.63	-0.84
133	12851.00	89.50	357.30	8618.37	4467.01	-22.71	4466.99	1.54	-0.73	-1.35
134	12945.00	89.00	356.70	8619.60	4560.87	-27.63	4560.90	0.83	-0.53	-0.64
PTB	13031.00	89.00	356.70	8621.10	4646.71	-32.58	4646.79	0.00	0.00	0.00

Operator / Customer:	RKI Exploration & Production LLC	Date:	14-Jul-15
Well Name and No.:	East Pecos State 22-5H	MWD Operator:	Ranger Directional
County, State:	Eddy Co, New Mexico	Hole Size:	8 3/4
Drlg. Contractor:	Silver Oak 14	Location:	22-26S-29E
Field or Block No.:	East Pecos	Survey Reference:	Grid North
API No.:	30-015-42270	Declination:	7.08°
Permit No (AFE):		Job No.:	RDS 15-020

Target Coordinates			Final Survey Closure	
TVD	N / -S	E / -W	Distance	Azimuth
8,599.00'	4,799.90'	-52.70'	13,162.10'	359.37°

Tie-In Survey:	Ranger Directional					Sectional Method Survey Calculations				Rates / 100' M.D.	
Surveying Company:	Ranger Directional					Proposed Azimuth: 359.37°				Build or	R or -L
Sur. No.	M.D.	INCL.	AZM.	TVD	N / -S	E / -W	SECT.	DLS / 100'			Turn
TIE - IN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00