

District I
1625 N. French Dr., Hobbs, NM 88240

District II
811 S. First St., Artesia, NM 88210

District III
1000 Rio Brazos Rd., Aztec, NM 87410

District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources

Form C-104
Revised August 1, 2011

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

Submit one copy to appropriate District Office

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator name and Address Fasken Oil and Ranch, Ltd. 6101 Holiday Hill Rd. Midland, TX 79707		² OGRID Number 151416	³ Reason for Filing Code/ Effective Date
⁴ API Number 30 - 025-41947	⁵ Pool Name Lea. Bone Spring. South	⁶ Pool Code 37580	
⁷ Property Code	⁸ Property Name Paloma "21" Federal	⁹ Well Number 4H	

II. ¹⁰ Surface Location

Ul or lot no. A	Section 21	Township 20-S	Range 34-E	Lot Idn	Feet from the 200	North/South Line North	Feet from the 185	East/West line East	County Lea
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¹¹ Bottom Hole Location

UL or lot no. A	Section 28	Township 20-S	Range 34-E	Lot Idn	Feet from the 1224	North/South line North	Feet from the 401	East/West line East	County Lea
¹² Lse Code	¹³ Producing Method Code	¹⁴ Gas Connection Date	¹⁵ C-129 Permit Number	¹⁶ C-129 Effective Date	¹⁷ C-129 Expiration Date				

III. Oil and Gas Transporters

¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address	²⁰ O/G/W
151416	Fasken Oil and Ranch, Ltd. 6101 Holiday Hill Rd, Midland, TX 79707	O
159160	Versado Gas Processors 1000 Louisiana, Suite 4300, Houston, TX 77002	G

IV. Well Completion Data

²¹ Spud Date 7/28/2014	²² Ready Date 6/20/2015	²³ TD 16967' MD 11085' TVD	²⁴ PBTD 16946' MD 11085' TVD	²⁵ Perforations 11302'-16717'	²⁶ DHC, MC
²⁷ Hole Size	²⁸ Casing & Tubing Size	²⁹ Depth Set	³⁰ Sacks Cement		
17 1/2"	13 3/8"	1662'	1350 sx "C"		
12 1/4"	9 5/8"	5203' DV Tool @ 3773'	650 sx "C" 1420 sx "C"		
8 3/4"	5 1/2"	16953'	3400 sx "C"		

V. Well Test Data

³¹ Date New Oil 6/20/2015	³² Gas Delivery Date	³³ Test Date 6/28/2015	³⁴ Test Length 24 Hrs.	³⁵ Tbg. Pressure 0	³⁶ Csg. Pressure 1800
³⁷ Choke Size 10/64"	³⁸ Oil 213	³⁹ Water 362	⁴⁰ Gas 265		⁴¹ Test Method Flowing

⁴² I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

Signature:

Printed name:
Addison Long

Title:
Regulatory Analyst

E-mail Address:
addisonl@forl.com

Date:
06-30-2015

Phone:
432-687-1777

OIL CONSERVATION DIVISION

Approved by:

Title:

Petroleum Engineer

Approval Date:

Recomp _____ Add New Well _____
Cancel Well _____ Create Pool _____
E-PERMITTING - - New Well _____
Comp _____ P&A _____ TA _____
CSNG _____ Loc Chng _____ C104 KE
ReComp _____ Add New Well _____

OCT 07 2015



Weatherford®

SURVEY REPORT

Report Date: 9/2/2014
 Customer: Fasken
 Job Name: 10192626
 Well Name: Paloma 21 Fed #4H

Field: Bone Spring
 Rig: Nomac # 54
 Rig Loc: Lea County

Survey Calculation Method: Minimum Curvature						
Magnetic Reference	Target Direction	Total Magnetic Field	Magnetic Dip Angle	Magnetic Declination	Grid Convergence	Total Correction
Grid North	179.59 deg	48510 nT	60.41 deg	-7.34 deg	0.42 deg	6.92 deg
Survey Tie-On	Depth	INC	AZ	TVD	NS	EW
	5032.00 ft	1.22 deg	201.94 deg	5031.11 ft	-42.07 ft	-5.39 ft

Depth (ft)	Inc (deg)	Azm (deg)	TVD (ft)	Well Head		VSect (ft)	Dogleg (deg/100ft)
				NS (ft)	EW (ft)		
5321.00	0.93	213.53	5320.06	-46.88	-7.84	46.82	0.12
5416.00	0.86	202.18	5415.05	-48.18	-8.53	48.12	0.20
5511.00	0.91	203.60	5510.04	-49.53	-9.10	49.47	0.06
5606.00	0.93	204.59	5605.02	-50.93	-9.72	50.85	0.03
5701.00	0.75	202.75	5700.01	-52.20	-10.29	52.13	0.19
5796.00	0.91	184.32	5795.00	-53.53	-10.58	53.45	0.33
5890.00	0.77	182.14	5888.99	-54.90	-10.66	54.82	0.15
5985.00	2.20	268.72	5983.97	-55.58	-12.51	55.49	2.41
6080.00	2.69	272.09	6078.88	-55.54	-16.56	55.42	0.54
6175.00	2.71	284.90	6173.78	-54.88	-20.96	54.73	0.63
6270.00	2.95	283.29	6268.66	-53.74	-25.51	53.56	0.27
6365.00	2.06	288.06	6363.57	-52.65	-29.51	52.44	0.96
6460.00	2.70	281.52	6458.49	-51.67	-33.33	51.43	0.73
6555.00	2.79	284.67	6553.38	-50.64	-37.76	50.37	0.18
6650.00	3.34	286.84	6648.24	-49.25	-42.64	48.95	0.59
6745.00	3.30	280.50	6743.08	-47.95	-47.98	47.61	0.39
6841.00	3.28	280.60	6838.92	-46.95	-53.39	46.56	0.02
6935.00	3.37	283.23	6932.76	-45.82	-58.73	45.40	0.19
7030.00	3.20	281.41	7027.61	-44.65	-64.04	44.20	0.21
7125.00	3.17	280.61	7122.46	-43.65	-69.23	43.15	0.06
7220.00	3.36	286.54	7217.31	-42.37	-74.48	41.84	0.41
7314.00	3.05	279.26	7311.16	-41.18	-79.58	40.61	0.54
7409.00	2.95	283.69	7406.03	-40.20	-84.45	39.59	0.27
7504.00	2.79	284.49	7500.91	-39.04	-89.07	38.40	0.17
7598.00	2.88	283.34	7594.80	-37.92	-93.58	37.25	0.11
7692.00	3.94	292.21	7688.63	-36.16	-98.87	35.45	1.26
7788.00	4.27	287.12	7784.38	-33.86	-105.34	33.10	0.51
7883.00	3.87	285.18	7879.14	-31.98	-111.81	31.18	0.45
7978.00	4.00	285.42	7973.92	-30.26	-118.10	29.41	0.14
8073.00	3.76	283.84	8068.70	-28.63	-124.32	27.74	0.28
8168.00	3.21	295.54	8163.53	-26.74	-129.74	25.81	0.94
8262.00	3.08	298.10	8257.39	-24.42	-134.35	23.45	0.20
8357.00	3.03	298.65	8352.25	-22.01	-138.80	21.02	0.06
8452.00	2.41	297.79	8447.14	-19.88	-142.77	18.85	0.65
8547.00	2.47	287.50	8542.06	-18.33	-146.49	17.28	0.46

Depth (ft)	Inc (deg)	Azim (deg)	TVD (ft)	Well Head		VSect (ft)	Dogleg (deg/100ft)
				NS (ft)	EW (ft)		
8641.00	2.45	287.34	8635.97	-17.12	-150.34	16.04	0.02
8737.00	2.29	283.72	8731.89	-16.05	-154.16	14.95	0.23
8831.00	2.29	297.24	8825.81	-14.75	-157.66	13.62	0.57
8925.00	3.10	310.77	8919.71	-12.23	-161.25	11.08	1.09
9020.00	1.64	328.19	9014.63	-9.40	-163.91	8.22	1.70
9116.00	1.40	266.84	9110.60	-8.29	-165.81	7.11	1.63
9212.00	0.77	266.39	9206.58	-8.40	-167.62	7.20	0.66
9307.00	0.53	262.81	9301.58	-8.49	-168.70	7.29	0.26
9402.00	0.30	209.63	9396.57	-8.77	-169.25	7.55	0.45
9496.00	2.47	278.01	9490.54	-8.70	-171.38	7.47	2.53
9591.00	3.03	281.31	9585.43	-7.92	-175.87	6.66	0.61
9684.00	3.88	278.65	9678.26	-6.96	-181.39	5.67	0.93
9780.00	3.72	278.60	9774.05	-6.01	-187.68	4.67	0.17
9874.00	3.33	277.78	9867.87	-5.18	-193.40	3.80	0.42
9969.00	3.40	274.04	9962.71	-4.61	-198.95	3.19	0.24
10064.00	3.32	274.93	10057.55	-4.18	-204.50	2.71	0.10
10159.00	3.13	270.49	10152.40	-3.92	-209.83	2.42	0.33
10279.00	5.89	224.31	10272.05	-8.30	-217.41	6.74	3.63
10311.00	8.99	206.65	10303.78	-11.71	-219.68	10.14	11.93
10342.00	11.77	198.32	10334.27	-16.88	-221.76	15.29	10.17
10374.00	14.00	193.91	10365.46	-23.73	-223.72	22.13	7.61
10406.00	16.20	192.00	10396.36	-31.86	-225.58	30.24	7.05
10437.00	17.97	187.27	10425.99	-40.83	-227.08	39.21	7.25
10469.00	19.44	180.81	10456.30	-51.06	-227.78	49.42	7.93
10500.00	21.08	178.49	10485.38	-61.79	-227.71	60.16	5.89
10532.00	23.15	179.60	10515.03	-73.83	-227.51	72.20	6.60
10563.00	25.69	179.32	10543.25	-86.65	-227.39	85.02	8.20
10595.00	28.21	179.09	10571.77	-101.15	-227.19	99.52	7.88
10626.00	29.76	178.23	10598.89	-116.16	-226.83	114.54	5.18
10658.00	30.91	176.86	10626.51	-132.31	-226.14	130.69	4.19
10690.00	32.30	175.37	10653.76	-149.04	-225.00	147.43	4.98
10721.00	34.37	175.06	10679.66	-166.01	-223.57	164.41	6.70
10752.00	36.89	176.85	10704.86	-184.03	-222.31	182.43	8.80
10784.00	40.64	177.96	10729.80	-204.04	-221.41	202.45	11.92
10815.00	43.06	177.80	10752.89	-224.70	-220.65	223.12	7.81
10847.00	44.51	177.50	10775.99	-246.83	-219.74	245.25	4.58
10878.00	46.34	177.47	10797.75	-268.89	-218.77	267.32	5.90
10909.00	48.93	178.23	10818.64	-291.77	-217.91	290.21	8.55
10940.00	51.13	179.08	10838.55	-315.52	-217.36	313.96	7.40
10972.00	52.80	179.39	10858.27	-340.72	-217.02	339.16	5.27
11003.00	55.02	179.21	10876.53	-365.77	-216.71	364.21	7.18
11035.00	58.14	178.78	10894.15	-392.47	-216.24	390.92	9.81
11066.00	60.74	178.89	10909.91	-419.16	-215.70	417.61	8.39
11098.00	63.12	178.44	10924.97	-447.39	-215.04	445.84	7.54
11129.00	65.54	178.42	10938.39	-475.31	-214.28	473.77	7.81
11160.00	67.74	178.66	10950.68	-503.76	-213.55	502.22	7.13
11192.00	69.92	179.30	10962.24	-533.60	-213.02	532.06	7.06
11224.00	72.60	179.88	10972.52	-563.90	-212.81	562.36	8.55
11255.00	75.43	179.79	10981.06	-593.69	-212.72	592.16	9.13
11287.00	78.08	179.89	10988.39	-624.84	-212.63	623.30	8.29

Depth (ft)	Inc (deg)	Azm (deg)	TVD (ft)	Well Head		Vsect (ft)	Dogleg (deg/100ft)
				NS (ft)	EW (ft)		
11318.00	79.52	179.65	10994.41	-655.25	-212.51	653.71	4.71
11350.00	83.76	178.90	10999.06	-686.90	-212.11	685.36	13.45
11382.00	87.76	178.51	11001.43	-718.80	-211.39	717.26	12.56
11413.00	89.93	178.10	11002.05	-749.77	-210.47	748.25	7.12
11508.00	91.40	177.63	11000.95	-844.70	-206.93	843.20	1.62
11543.00	91.79	177.95	10999.97	-879.66	-205.58	878.17	1.44
11637.00	88.77	180.06	10999.51	-973.63	-203.95	972.14	3.92
11732.00	89.07	178.24	11001.31	-1068.60	-202.54	1067.12	1.94
11828.00	89.45	180.50	11002.55	-1164.58	-201.49	1163.10	2.39
11922.00	88.95	181.83	11003.86	-1258.54	-203.40	1257.06	1.51
12017.00	89.57	181.56	11005.08	-1353.49	-206.21	1351.98	0.71
12112.00	87.09	180.75	11007.85	-1448.43	-208.12	1446.90	2.75
12206.00	89.44	180.47	11010.70	-1542.37	-209.12	1540.84	2.52
12301.00	88.77	179.47	11012.18	-1637.36	-209.07	1635.82	1.27
12396.00	89.07	180.24	11013.97	-1732.34	-208.83	1730.80	0.87
12491.00	86.73	179.29	11017.45	-1827.27	-208.44	1825.73	2.66
12587.00	88.64	176.37	11021.33	-1923.11	-204.81	1921.59	3.63
12682.00	91.30	178.88	11021.38	-2018.01	-200.88	2016.52	3.85
12776.00	87.41	179.63	11022.44	-2111.98	-199.65	2110.49	4.21
12871.00	84.99	176.97	11028.74	-2206.71	-196.84	2205.24	3.78
12965.00	89.63	175.51	11033.15	-2300.38	-190.69	2298.95	5.17
13060.00	91.98	178.41	11031.81	-2395.22	-185.65	2393.83	3.93
13155.00	88.77	180.08	11031.19	-2490.19	-184.40	2488.81	3.81
13250.00	86.79	176.81	11034.87	-2585.07	-181.82	2583.70	4.02
13345.00	87.72	174.19	11039.42	-2679.65	-174.38	2678.34	2.92
13439.00	89.81	177.82	11041.45	-2773.38	-167.83	2772.11	4.46
13534.00	88.27	181.59	11043.04	-2868.35	-167.34	2867.08	4.29
13628.00	90.68	181.09	11043.90	-2962.31	-169.54	2961.02	2.62
13723.00	89.69	184.28	11043.60	-3057.19	-173.99	3055.87	3.52
13818.00	86.36	181.42	11046.87	-3152.00	-178.71	3150.64	4.62
13877.00	88.09	179.31	11049.73	-3210.92	-179.09	3209.56	4.62
13972.00	88.21	178.04	11052.79	-3305.84	-176.89	3304.49	1.34
14066.00	88.64	179.28	11055.38	-3399.78	-174.70	3398.44	1.40
14161.00	88.65	179.96	11057.62	-3494.75	-174.07	3493.42	0.72
14255.00	88.58	179.95	11059.90	-3588.72	-173.99	3587.39	0.08
14350.00	88.39	179.83	11062.41	-3683.69	-173.81	3682.35	0.24
14445.00	90.86	180.11	11063.03	-3778.68	-173.76	3777.34	2.62
14539.00	90.37	179.93	11062.02	-3872.68	-173.79	3871.33	0.56
14635.00	90.62	179.90	11061.19	-3968.67	-173.65	3967.33	0.26
14729.00	90.74	179.59	11060.08	-4062.66	-173.23	4061.32	0.35
14824.00	88.83	179.79	11060.43	-4157.66	-172.72	4156.32	2.02
14919.00	89.03	179.69	11062.21	-4252.64	-172.29	4251.30	0.24
15013.00	89.32	179.59	11063.56	-4346.63	-171.70	4345.29	0.33
15108.00	89.57	179.16	11064.48	-4441.62	-170.66	4440.28	0.52
15203.00	90.12	179.19	11064.74	-4536.61	-169.29	4535.28	0.58
15297.00	89.57	180.32	11064.99	-4630.60	-168.89	4629.28	1.34
15392.00	88.33	181.75	11066.73	-4725.57	-170.81	4724.23	1.99
15486.00	88.27	182.21	11069.52	-4819.47	-173.85	4818.10	0.49
15582.00	88.40	181.97	11072.31	-4915.37	-177.35	4913.97	0.28
15677.00	88.58	181.92	11074.81	-5010.28	-180.58	5008.86	0.20

Depth (ft)	Inc (deg)	Azm (deg)	TVD (ft)	Well Head		VSect (ft)	Dogleg (deg/100ft)
				NS (ft)	EW (ft)		
15771.00	89.57	181.35	11076.33	-5104.23	-183.26	5102.78	1.22
15865.00	90.37	181.44	11076.38	-5198.20	-185.55	5196.74	0.86
15960.00	90.00	180.27	11076.07	-5293.18	-186.96	5291.71	1.29
16053.00	90.06	179.19	11076.02	-5386.18	-186.52	5384.71	1.16
16148.00	90.37	179.44	11075.67	-5481.17	-185.39	5479.71	0.42
16243.00	88.52	179.07	11076.59	-5576.16	-184.15	5574.70	1.99
16337.00	88.27	178.77	11079.22	-5670.10	-182.38	5668.65	0.42
16432.00	88.77	178.86	11081.67	-5765.05	-180.42	5763.61	0.53
16527.00	89.32	179.08	11083.26	-5860.02	-178.71	5858.59	0.62
16621.00	89.81	179.05	11083.97	-5954.01	-177.18	5952.59	0.52
16716.00	90.25	178.85	11083.92	-6048.99	-175.44	6047.58	0.51
16810.00	90.79	178.63	11083.07	-6142.96	-173.37	6141.57	0.62
16905.00	88.89	177.98	11083.33	-6237.92	-170.56	6236.54	2.11
Projected to Total Depth:							
16968.00	88.89	177.98	11084.55	-6300.87	-168.34	6303.11	0.00

Weatherford surveys from 5321 ft MD to 16905 ft MD

TD at 16968.00 ft MD

The total correction is 6.92 deg relative to Grid North.