

Form 3160-4
(July 1989)
(Formerly F-330)UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTCONTACT REPT
OPERATOR'S COPY
OF COPIES REQUIREDBLM Roswell District
Modified Form No.
NM060-3160-3

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL: OIL ☒ GAS ☐ DRY ☐ OTHER ☐ WELL WELL		5. LEASE DESIGNATION AND SERIAL NO. NM-0554221																															
b. TYPE OF COMPLETION: NEW ☒ WORK ☐ DEEPEN ☐ PLUG ☐ DEEP ☐ OTHER ☐ WELL OVER BACK RESER		6. IF INDIAN, ALLOTTEE OR TRIBE NAME																															
2. NAME OF OPERATOR STRATA PRODUCTION COMPANY		7. UNIT AGREEMENT NAME Nash Unit 30-015-32476																															
3. ADDRESS OF OPERATOR P. O. BOX 1030 ROSWELL, NEW MEXICO 88202-1030		8. FARM OR LEASE NAME Nash Unit																															
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)* At surface 10' FSL & 175' FWL Section 12-23S-29E At top prod. interval reported below 2867' FSL 3017' FEL Section 11-23S-29E At total depth 2880.00 FSL & 2840.20 FEL 2647 3088		9. WELL NO. #33																															
9a. API Well No. 30-015-32476		10. FIELD AND POOL, OR Nash Draw Brushy Canyon																															
14. PERMIT NO. 30-015-32476		11. SEC. T. R. M. OR BLOCK AND SURVEY OR AREA Section 12-23S-29E																															
15. DATE SPUDDED 10/18/02		12. COUNTY OR PARISH Eddy																															
16. DATE T.D. REACHED 11/20/02		13. STATE NM																															
17. DATE COMPL. (Ready to prod.) 12/14/02		18. ELEVATION (OF RGR, RT, OR ETC.)* 2983' GR; 3001' KB																															
19. TOTAL DEPTH, MD & TVD TVD 6735.65 MD 9605'		20. INTERVALS DRILLED BY ROTARY TOOLS CABLE TOOLS 0' - 9573'																															
21. PLUG BACK T.D., MD & TVD 9605' MD		22. IF MULTIPLE COMPL. HOW MANY -																															
23. PRODUCING INTERVAL(S) OF THIS COMPLETION - TOP, BOTTOM, NAME (MD AND TVD)* 9573' - 9605'; 6735.65 TVD Brushy Canyon		24. WAS DIRECTIONAL SURVEY MADE Yes																															
25. TYPE ELECTRIC AND OTHER LOGS RUN Gyro Survey, Bond Log, Csg. Inspection Logs, DLL, MLL, CNL, DL, GR		26. WAS WELL CORED No																															
27. CASING RECORD (Report all strings set in well)																																	
<table border="1"><thead><tr><th>CASING SIZE</th><th>WEIGHT, LB./FT.</th><th>DEPTH SET (MD)</th><th>HOLE SIZE</th><th>CEMENTING RECORD</th><th>AMOUNT PULLED</th></tr></thead><tbody><tr><td>13 3/8"</td><td>H40</td><td>400'</td><td>17 1/2"</td><td>529 SX Class C</td><td>Circ</td></tr><tr><td>8 5/8"</td><td>32#</td><td>3055'</td><td>11"</td><td>813 SX 50/50 Poz C; 200 SX Class C</td><td>Circ 347 SX</td></tr><tr><td>5 1/2"</td><td>17#</td><td>9573'</td><td>7 7/8"</td><td>638 SX Poz C; 100 SX Lite, 750 SX Litecrete</td><td>Circ 125 SX</td></tr><tr><td>Open Hole</td><td></td><td>9605'</td><td>4 3/4"</td><td></td><td></td></tr></tbody></table>				CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED	13 3/8"	H40	400'	17 1/2"	529 SX Class C	Circ	8 5/8"	32#	3055'	11"	813 SX 50/50 Poz C; 200 SX Class C	Circ 347 SX	5 1/2"	17#	9573'	7 7/8"	638 SX Poz C; 100 SX Lite, 750 SX Litecrete	Circ 125 SX	Open Hole		9605'	4 3/4"		
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N/A	380#		377	845	420	43.5																											
33. DISPOSITION OF GAS (Sold, Used for Fuel, Vent, etc.)																																	
Sold																																	
34. LIST OF ATTACHMENTS																																	
DLL, MLL, CNL, DL, GR, Deviation Survey																																	
35. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.																																	
SIGNED <u>Kelly M. Britt</u> TITLE <u>Production Records</u> DATE <u>January 23, 2003</u>																																	

(See Instructions and Spaces for Additional Data on Reverse Side)

Title 18 U.S.C. Section 1001, makes 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.

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STRATA PRODUCTION CO

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37. SUMMARY OF POROUS ZONES: (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):

38. GEOLOGIC MARKERS

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	TOP	
					MEAS. DEPTH	TRUE VERT. DEPTH
Rustler	Surface	260'	Redbed and Salt			
Salado	260'	1720'	Salt and Anhydrite			
Castile	1720'	3095'	Anhydrite			
Bell Canyon	3095'	4140'	Sandstone			
Cherry Canyon	4140'	5178'	Sandstone and Shale			
Brushy Canyon	5178'		Sandstone and Shale			

Strata Production Company
Nash Unit #33
Unit M, Sec. 12, T23S-R29E
2650' FSL & 2250'FWL (BHL)
(G.L.-2983', K.B.-3001')
Eddy Co., N.M.
30-015-32476

GEOLOGICAL TOPS PER/BRYAN G. ARRANT-OCD
(Measured Depths)

Salado	403'
Base of Salt	2876'
Lamar Limestone	3098'
Delaware Sands	3140'
Bone Spring	NDE

Survey

Schlumberger

Client: Strata Production	Survey Computation Method: Minimum Curvature
Field: NM Eddy County 1	DLS Computation Method: Lubinski
Structure: Strata Production Nash Draw #33	Vertical Section Azimuth: 309.460°
Well: Nash Draw #33	Vertical Section Origin: N 0.000 ft, E 0.000 ft
Borehole: Original hole	TVD Reference: Borehole:
UWI/API#:	0.0 ft above
Date: November 08, 2002	Magnetic Declination: 8.883°
Grid Convergence: 0.04539879°	Total Field Strength: 49413.173 nT
Scale Factor: 0.99990989	Dip: 60.194°
	Declination Date: October 25, 2002
Location: N 32 9 16.621, W 104 14 52.902	Magnetic Declination Model: BGMN 2002
: N 419981.400 RUS, E 526399.600 RUS	North Reference: Grid North
Coordinate System: NAD27 New Mexico State Planes, Eastern Zone, US Feet	Coordinate Reference To: Wellhead (Grid)

Comment	MD (ft)	Incl (°)	Azim (°)	TVD (ft)	VSec (ft)	NS (ft)	EW (ft)	Closure (ft)	CI Azim (°)	DLS (°/100ft)
Tie-In	3000.00	1.71	120.02	2999.25	-20.26	-23.47	8.92	24.47	163.57	—
Slim Pulse MWD Survey	3136.00	1.22	123.30	3135.21	-23.70	-25.28	9.89	27.14	158.64	0.37
Slim Pulse MWD Survey	3199.00	0.90	303.98	3198.20	-23.88	-25.37	10.04	27.29	158.42	3.37
Slim Pulse MWD Survey	3234.00	2.20	312.27	3233.19	-22.93	-24.77	9.31	26.46	159.39	3.76
	3310.00	5.12	319.31	3309.03	-18.13	-21.21	6.02	22.05	164.15	3.88
	3361.00	6.84	312.87	3359.75	-12.86	-17.42	2.31	17.57	172.44	3.61
	3421.00	8.81	309.99	3419.19	-4.70	-12.04	-3.83	12.63	197.64	3.35
	3488.00	10.71	309.65	3485.22	6.66	-4.77	-12.55	13.43	249.21	2.84
	3524.00	11.03	308.38	3520.57	13.45	-0.49	-17.83	17.84	268.41	1.11
	3590.00	13.50	308.08	3585.06	27.46	8.18	-28.84	29.98	285.83	3.74
	3655.00	16.00	310.28	3647.91	44.01	18.65	-41.65	45.64	294.12	3.94
	3712.00	18.16	311.67	3702.39	60.74	29.64	-54.28	61.85	298.63	3.86
	3776.00	20.26	314.34	3762.83	81.75	44.01	-69.66	82.40	302.29	3.56
	3840.00	22.54	315.06	3822.41	105.00	60.44	-86.25	105.32	305.02	3.59
	3906.00	24.93	313.94	3882.83	131.47	79.05	-105.21	131.60	306.92	3.68

3968.00	26.17	313.42	3938.76	158.13	97.52	-124.55	158.18	308.06	2.03
4040.00	27.32	312.22	4003.06	190.48	119.54	-148.31	190.49	308.87	1.76
4122.00	30.14	309.29	4074.96	229.87	145.22	-178.19	229.87	309.18	3.84
4204.00	31.18	306.55	4145.50	271.66	170.90	-211.18	271.67	308.98	2.12
4295.00	30.11	306.96	4223.79	317.99	198.66	-248.34	318.02	308.66	1.20
4394.00	30.82	311.06	4309.13	368.16	230.25	-287.31	368.19	308.71	2.22
4492.00	31.30	311.93	4393.08	418.69	263.75	-325.18	418.70	309.05	0.67
4588.00	30.34	310.94	4475.52	467.84	296.30	-362.05	467.84	309.30	1.13
4651.00	30.04	311.78	4529.98	499.50	317.24	-385.83	499.50	309.43	0.82
4748.00	29.72	311.12	4614.08	547.80	349.22	-422.05	547.80	309.61	0.47
4841.00	28.88	309.62	4695.19	593.30	378.71	-456.72	593.30	309.67	1.20
4941.00	29.25	309.30	4782.59	641.88	409.58	-484.22	641.88	309.65	0.40
5031.00	29.14	310.29	4861.16	685.78	437.68	-527.95	685.78	309.66	0.55
5127.00	29.18	309.52	4944.99	732.55	467.69	-563.83	732.56	309.67	0.39
5223.00	29.40	310.53	5028.72	779.51	497.89	-599.80	779.52	309.70	0.56
5318.00	29.29	309.81	5111.53	828.07	527.92	-635.37	826.07	309.72	0.39
5413.00	29.12	310.31	5184.46	872.42	557.75	-670.85	872.43	309.74	0.31
5509.00	29.23	310.83	5278.28	919.21	588.19	-706.40	919.22	309.78	0.29
5606.00	29.08	310.03	5362.99	966.46	618.84	-742.37	966.47	309.81	0.43
5702.00	28.73	307.78	5447.03	1012.85	647.98	-778.47	1012.86	309.77	1.19
5800.00	29.22	307.21	5532.76	1060.29	676.88	-816.13	1060.30	309.67	0.58
5897.00	28.32	307.76	5617.79	1106.95	705.29	-853.18	1106.95	309.58	0.97
5992.00	29.09	306.60	5701.11	1152.54	732.86	-889.53	1152.54	309.48	1.00
6086.00	30.20	308.05	5782.81	1199.00	761.05	-926.50	1199.00	309.40	1.41
6184.00	30.55	311.23	5867.36	1248.53	792.66	-964.64	1248.54	309.41	1.68
6276.00	30.62	312.44	5946.57	1295.30	823.88	-999.52	1295.30	309.50	0.67
6371.00	29.74	309.89	6028.69	1343.03	855.32	-1035.45	1343.03	309.56	1.64
6466.00	29.50	310.08	6111.28	1389.98	885.49	-1071.43	1389.98	309.57	0.27
6566.00	30.21	309.88	6198.00	1439.76	917.48	-1109.57	1439.76	309.59	0.72
6660.00	29.86	307.01	6279.39	1486.79	946.73	-1146.41	1486.79	309.55	1.57

6756.00	30.35	307.35	6362.44	1534.80	975.83	-1184.77	1534.90	309.48	0.54
6854.00	30.09	307.11	6447.12	1584.19	1005.67	-1224.05	1584.19	309.41	0.29
6935.00	29.78	301.83	6517.32	1624.42	1028.54	-1257.34	1624.43	309.28	3.27
7015.00	39.93	300.56	6582.89	1669.59	1052.13	-1296.43	1669.64	309.06	12.72
7108.00	50.61	304.91	6648.26	1735.11	1087.98	-1351.77	1735.22	308.83	11.95
7208.00	58.23	312.48	6706.46	1816.28	1138.93	-1414.96	1816.39	308.83	9.79
7270.00	64.25	313.80	6736.27	1870.49	1176.09	-1454.59	1870.57	308.96	9.89
7338.00	68.19	317.00	6763.15	1932.59	1220.57	-1498.41	1932.61	309.17	8.45
7373.00	72.03	317.60	6774.77	1965.29	1244.83	-1520.79	1965.30	309.30	8.27
7411.00	75.36	317.95	6785.43	2001.37	1271.83	-1545.30	2001.38	309.46	8.81
7438.00	79.20	318.25	6791.38	2027.41	1291.43	-1562.88	2027.41	309.57	14.26
7469.00	82.66	318.60	6796.26	2057.65	1314.33	-1583.19	2057.66	309.70	11.22
7500.00	85.53	319.56	6799.45	2088.05	1337.63	-1603.39	2088.09	309.84	9.76
7532.00	87.25	320.31	6801.47	2119.45	1362.07	-1623.94	2119.53	309.99	5.86
7565.00	88.97	320.63	6802.55	2151.83	1387.51	-1644.94	2151.97	310.15	5.30
7596.00	89.31	320.89	6803.02	2182.22	1411.51	-1664.54	2182.45	310.30	1.38
7636.00	89.48	320.75	6803.44	2221.44	1442.52	-1689.81	2221.78	310.49	0.55
7659.00	89.62	320.39	6803.62	2244.01	1460.28	-1704.42	2244.43	310.59	1.68
7691.00	91.27	319.77	6803.37	2275.46	1484.82	-1724.95	2276.00	310.72	5.51
7723.00	91.96	319.03	6802.47	2306.97	1509.11	-1745.77	2307.62	310.84	3.16
7756.00	92.10	317.16	6801.30	2339.58	1533.65	-1767.79	2340.34	310.94	5.68
7788.00	92.41	315.65	6800.04	2371.32	1556.81	-1789.84	2372.17	311.02	4.81
7820.00	91.99	314.12	6798.82	2403.15	1579.37	-1812.50	2404.07	311.07	4.95
7852.00	91.96	312.96	6797.71	2435.05	1601.40	-1835.68	2436.03	311.10	3.62
7884.00	92.27	311.72	6796.53	2466.99	1622.94	-1859.32	2468.00	311.12	3.99
7916.00	92.79	310.21	6795.12	2498.95	1643.90	-1883.46	2499.96	311.11	4.99
7952.00	93.54	309.20	6793.13	2534.89	1666.86	-1911.11	2535.90	311.09	3.49
7984.00	93.82	309.44	6791.08	2566.82	1687.10	-1935.81	2567.82	311.07	1.15
8017.00	93.23	309.05	6789.05	2599.76	1707.94	-1961.32	2600.74	311.05	2.14
8048.00	92.65	310.02	6787.46	2630.72	1727.64	-1985.20	2631.68	311.03	3.64
8080.00	91.72	309.82	6786.24	2662.69	1748.16	-2009.72	2663.65	311.02	2.97

8112.00	92.12	309.67	6785.17	2694.68	1768.61	-2034.31	2695.63	311.00	1.33
8144.00	92.44	309.66	6783.89	2726.65	1789.02	-2058.93	2727.60	310.99	1.00
8176.00	92.30	309.47	6782.57	2758.62	1809.38	-2083.58	2759.56	310.97	0.74
8208.00	91.65	309.40	6781.47	2790.60	1829.70	-2108.28	2791.53	310.95	2.04
8240.00	91.24	308.77	6780.66	2822.59	1849.87	-2133.11	2823.50	310.93	2.35
8272.00	91.17	308.54	6779.99	2854.58	1869.85	-2158.09	2855.47	310.91	0.75
8305.00	91.68	308.79	6779.17	2887.57	1890.46	-2183.85	2888.43	310.88	1.72
8336.00	92.58	309.17	6778.01	2918.55	1909.95	-2207.93	2919.39	310.86	3.15
8368.00	93.10	309.10	6776.43	2950.51	1930.12	-2232.72	2951.34	310.84	1.64
8398.00	92.89	309.51	6774.86	2980.46	1949.10	-2255.90	2981.29	310.83	1.53
8458.00	91.96	308.26	6772.32	3040.41	1986.73	-2302.56	3041.20	310.79	2.60
8496.00	92.48	308.38	6770.85	3078.37	2010.27	-2332.35	3079.14	310.76	1.40
8526.00	92.58	308.32	6769.53	3108.33	2028.87	-2355.86	3109.08	310.74	0.39
8558.00	92.44	307.94	6768.13	3140.30	2048.61	-2381.01	3141.02	310.71	1.26
8590.00	91.99	307.67	6766.89	3172.26	2068.21	-2406.27	3172.95	310.68	1.64
8622.00	91.99	307.49	6765.78	3204.22	2087.71	-2431.62	3204.89	310.65	0.56
8653.00	92.41	307.91	6764.59	3235.18	2106.66	-2456.13	3235.82	310.62	1.92
8685.00	91.93	307.82	6763.38	3267.15	2126.28	-2481.37	3267.76	310.59	1.53
8718.00	92.13	308.02	6762.21	3300.11	2146.55	-2507.39	3300.71	310.57	0.86
8750.00	92.30	308.01	6760.97	3332.08	2166.24	-2532.58	3332.65	310.54	0.53
8782.00	92.75	308.12	6759.56	3364.04	2185.95	-2557.75	3364.59	310.52	1.45
8810.00	92.96	308.12	6758.17	3392.00	2203.22	-2579.75	3392.53	310.50	0.75
8843.00	93.06	308.33	6756.43	3424.94	2223.61	-2605.64	3425.46	310.48	0.70
8876.00	92.58	307.55	6754.81	3457.89	2243.87	-2631.63	3458.39	310.45	2.77
8909.00	92.51	307.27	6753.34	3490.84	2263.90	-2657.82	3491.31	310.42	0.87
8942.00	92.72	307.51	6751.84	3523.78	2283.92	-2684.01	3524.23	310.40	0.97
8973.00	91.55	306.76	6750.68	3554.73	2302.62	-2708.71	3555.16	310.37	4.48
9004.00	90.52	306.62	6750.12	3585.69	2321.14	-2733.56	3586.09	310.34	3.35
9037.00	91.00	306.81	6749.69	3618.65	2340.87	-2760.01	3619.02	310.30	1.56
9069.00	91.85	306.88	6748.95	3650.60	2360.05	-2785.61	3650.95	310.27	2.04
9101.00	92.00	306.99	6747.93	3682.56	2379.27	-2811.18	3682.88	310.24	1.15

9134.00	91.82	306.73	6748.83	3715.50	2399.05	-2837.57	3715.81	310.21	0.96
9165.00	91.96	306.71	6745.80	3746.45	2417.58	-2862.40	3746.73	310.18	0.46
9196.00	91.69	306.57	6744.82	3777.40	2436.07	-2887.26	3777.66	310.16	0.98
9229.00	91.96	306.48	6743.77	3810.34	2455.70	-2913.77	3810.58	310.12	0.86
9260.00	91.75	306.10	6742.76	3841.27	2474.04	-2938.74	3841.49	310.09	1.40
9292.00	91.31	305.95	6741.91	3873.20	2492.85	-2964.61	3873.40	310.06	1.45
9325.00	91.68	306.20	6741.05	3906.13	2512.28	-2891.28	3906.31	310.03	1.35
9356.00	91.65	306.16	6740.15	3937.07	2530.57	-3016.29	3937.23	310.00	0.16
9389.00	91.10	305.75	6739.35	3970.00	2549.94	-3042.99	3970.14	309.96	2.08
9420.00	90.96	305.79	6738.80	4000.93	2568.06	-3068.14	4001.05	163.57	0.47
9451.00	90.76	306.03	6738.33	4031.86	2586.24	-3093.25	4031.97	158.64	1.01
9483.00	89.97	305.39	6738.13	4063.79	2604.91	-3119.23	4063.89	158.42	3.18
9502.00	90.65	305.49	6738.03	4082.75	2615.93	-3134.71	4082.83	159.39	3.62
Proj To 9573.00 ft TD	9573.00	93.19	305.86	6735.65	4153.54	-3192.34	4153.60	184.15	3.62