

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD-ARTESIA

FORM APPROVED
OMB No. 1004-0137
Expires March 31, 2007**SUNDRY NOTICES AND REPORTS ON WELLS**
*Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.***SUBMIT IN TRIPLICATE- Other instructions on reverse side.**1. Type of Well
☒ Oil Well ☐ Gas Well ☐ Other2. Name of Operator **NADEL AND GUSSMAN HEYCO, LLC**3a. Address
PO BOX 1936 ~ ROSWELL NM 88202-19363b. Phone No. (include area code)
575/623/6601

4. Location of Well (Footage, Sec., T, R, M, or Survey Description)

**Unit N, 660' FSL & 2,310' FWL
Sec. 13: T18S, R31E**5. Lease Serial No.
NMNM-2538

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

8. Well Name and No.
LONGARM 13 FEDERAL #19. API Well No.
30-015-3745010. Field and Pool, or Exploratory Area
E. Shugart Delaware11. County or Parish, State
Eddy, New Mexico**12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION			
☐ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☒ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other Csg and Cmt
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	Production Report
	☐ 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.)

**BLM Bond No. NMB000520
Surety Bond No. B004230****1/6/2010 - TD 7 7/8" Hole at 5700'. Total pipe ran 129 jts of 5 1/2" 17# J-55 LTC csg, DV Tool @ 2338', centralizers placed @ 2 x 5652.36, 2x 5605.42, 5369.83, 5276.42, 5182.40, 5088.97, 4997.50, 4908.35, 4819.34, 4463.03, 4374.11, 4285.08, 4196.16, 4107.12, 4018.54, 3930.07, 3840.89, 3752.06, 3663.01, 2338.15, 2291.63.****1st Stage: Preflush: 20 bbls FW, 20 bbls chemical wash, 657 skx, Class "C"+1% BA10A+2/10%FL52A+4/10%CD32, CMT Wt 14.8, Yield 1.33, GPS 6.34.****2nd Stage: 1100 sks, Class "C"+8/10%CD32+2%Salt+8/10%FL62 CMT Wt 16.4, Yield 1.06, GPS 4.19.****No problems w/csg or cmt jobs. 1st plug: dn @ 7:11 am 1/6/10, circ 50 bbl (211 sks) to pit. WOC 4 hrs, circ w/rig pump. 2nd Stage: Plug dn @ 12:53 pm 1/6/10, circ 25 bbls (132sks) to pit.****Enclosed Bore Hole Log, Dual Laterolog,***Dual Spaced Neutron Spectral Density Log*14. I hereby certify that the foregoing is true and correct
Name (Printed/Typed)**Tammy R. Link**Title **Production Tech**

Signature

Date

01/07/2010**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by

Title

Date

JAN. 26 2010

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 which would entitle the applicant to conduct operations thereon.

Office

/s/ Chris Walls**BUREAU OF LAND MANAGEMENT****CARLSBAD FIELD OFFICE**

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.

(Instructions on page 2)

SUMMARY CASING AND CEMENTING REPORT

STRING: 5 1/2" PROD

DATE: 1/6/2010

OPERATOR: NADEL & GUSSMAN HEYCO
CONTRACTOR: PATRIOT

WELL: LONGARM 13 FEDERAL #1
RIG: #1
REP: KEITH CANNON

CASING DETAIL

HOLE SIZE:	7 7/8	DEPTH:	5700'
7 7/8" HOLE			5700.00
5 1/2" FLOAT SHOE			<u>1.50</u>
			5698.50
2 JTS 5 1/2" 17# J-55 LTC Csg			<u>93.08</u>
			5605.42
5 1/2" FLOAT COLLAR			<u>1.40</u>
			5604.02
74 JTS 5 1/2" 17# J-55 LTC Csg			<u>3265.87</u>
			2338.15
DV TOOL			<u>2.05</u>
			2336.10
53 JTS 5 1/2" 17# J-55 LTC Csg			<u>2353.89</u>
			-17.79
KB TO GL			<u>18.50</u>

CENTRALIZERS PLACED @ 2x 5652.36, 2x 5605.42, 5369.83, 5276.42, 5182.40, 5088.97, 4997.50, 4908.35, 4819.34, 4463.03, 4374.11, 4285.08, 4196.16, 4107.12, 4018.54, 3930.07, 3840.89, 3752.06, 3663.01, 2338.15, 2291.63

REMARKS:

TOTAL CASING DELIVERED.... 133 JTS (5844.72') 5 1/2" 17# J-55 LTC CSG
ALL CASING WAS DRIFTED, CLEANED, & VISUALLY INSPECTED ON LOCATION.
FLOAT SHOE, 2 SHOE JTS, FLOAT COLLOR, & DV TOOL WERE THREAD LOCKED.
TAGGED BOTTOM NO FILL. CIRCULATED CAPACITY & ANNULAR VOLUME

EXCESS CASING

CASING NOT USED 5 JTS 5 1/2" 17# J-55 (209.20') LTC.
DISPOSITION 5 JTS 17#, J-55 LTC CSG TRANSFERRED BACK TO TOOL PUSHER (ARTESIA)

CEMENTING DATA

COMPANY: BJ SERVICE

DISTRICT: ARTESIA

1ST STAGE:

PREFLUSH: 20 bbls FW, 20 bbls chemical wash

SUMMARY CASING AND CEMENTING REPORT

657 SKS, CLASS "C"+1%BA10A+2/10%FL52A+4/10%CD32, CMT WT 14.8, YIELD 1.33,
GPS 6.34

2ND STAGE

1100 SKS, CLASS "C"+8/10%CD32+2%SALE+8/10%FL62 CMT WT 16.4, YIELD 1.06,
GPS 4.19

NOTE:

NO PROBLEMS W/ CSG OR CMT JOBS. 1ST PLUG: DN @ 7:11 AM 1/6/10, CIRC 50BBL
(211 SKS) TO PIT. WOC 4HRS, CIRC W/ RIG PUMP. 2ND STAGE: PLUG DN @ 12:53PM
1/6/10, CIRC 25BBL (132SKS) TO PIT. CMT DID NOT HOLD BACK WTR FLOW. SHUT
IN HYDRILL W/ 300PSI F/ 2HRS.

DATE : 1/5/2010		WELL :		LONGARM 13 FEDERAL # 1						
Casing OD	5 1/2	Grade	J-55	Displacement bbl/ft	0.00613	Burst	5320	Torque		
Casing ID	4.892	Weight	17#	Capacity bbl/ft	0.02320	Collapse	4910	2470 - 3090		
Jt # or Item	Item or Jt. Lgth.	Total Length	Calc'd disp / jt	Calc'd tot disp	Actual tot disp	Calc Bbl to fill jt	Calc tot fill	Actual tot fill	Remarks Centrilizers	Depth 5700
1	1.50	1.50	0.0092	0.0092		0.0348	0.0348			5698.50
2	46.14	47.64	0.2828	0.2920		1.070448	1.1052		2x centrilrzer	5652.36
3	46.94	94.58	0.2877	0.5798		1.089008	2.1943		2x centrilrzer	5605.42
4	1.40	95.98	0.0086	0.5884		0.03248	2.2267			5604.02
5	46.88	142.86	0.2874	0.8757		1.087616	3.3144			5557.14
6	46.73	189.59	0.2865	1.1622		1.084136	4.3985			5510.41
7	47.15	236.74	0.2890	1.4512		1.09388	5.4924			5463.26
8	46.64	283.38	0.2859	1.7371		1.082048	6.5744			5416.62
9	46.79	330.17	0.2868	2.0239		1.085528	7.6599		Centrilizers	5369.83
10	46.82	376.99	0.2870	2.3109		1.086224	8.7462			5323.01
11	46.59	423.58	0.2856	2.5965		1.080888	9.8271		Centrilizers	5276.42
12	46.98	470.56	0.2880	2.8845		1.089936	10.9170			5229.44
13	47.04	517.60	0.2884	3.1729		1.091328	12.0083		Centrilizers	5182.40
14	46.71	564.31	0.2863	3.4592		1.083672	13.0920			5135.69
15	46.72	611.03	0.2864	3.7456		1.083904	14.1759		Centrilizers	5088.97
16	46.22	657.25	0.2833	4.0289		1.072304	15.2482			5042.75
17	45.25	702.50	0.2774	4.3063		1.0498	16.2980		Centrilizers	4997.50
18	44.57	747.07	0.2732	4.5795		1.034024	17.3320			4952.93
19	44.58	791.65	0.2733	4.8528		1.034256	18.3663		Centrilizers	4908.35
20	44.43	836.08	0.2724	5.1252		1.030776	19.3971			4863.92
21	44.58	880.66	0.2733	5.3984		1.034256	20.4313		Centrilizers	4819.34
22	44.45	925.11	0.2725	5.6709		1.03124	21.4626			4774.89
23	44.57	969.68	0.2732	5.9441		1.034024	22.4966		Centrilizers	4730.32
24	44.43	1014.11	0.2724	6.2165		1.030776	23.5274			4685.89
25	44.58	1058.69	0.2733	6.4898		1.034256	24.5616			4641.31
26	44.55	1103.24	0.2731	6.7629		1.03356	25.5952			4596.76
27	44.58	1147.82	0.2733	7.0361		1.034256	26.6294			4552.18
28	44.58	1192.40	0.2733	7.3094		1.034256	27.6637			4507.60
29	44.57	1236.97	0.2732	7.5826		1.034024	28.6977		Centrilizers	4463.03
30	44.46	1281.43	0.2725	7.8552		1.031472	29.7292			4418.57
31	44.46	1325.89	0.2725	8.1277		1.031472	30.7606		Centrilizers	4374.11
32	44.57	1370.46	0.2732	8.4009		1.034024	31.7947			4329.54
33	44.46	1414.92	0.2725	8.6735		1.031472	32.8261		Centrilizers	4285.08
34	44.45	1459.37	0.2725	8.9459		1.03124	33.8574			4240.63
35	44.47	1503.84	0.2726	9.2185		1.031704	34.8891		Centrilizers	4196.16
36	44.58	1548.42	0.2733	9.4918		1.034256	35.9233			4151.58
37	44.46	1592.88	0.2725	9.7644		1.031472	36.9548		Centrilizers	4107.12
38	44.00	1636.88	0.2697	10.0341		1.0208	37.9756			4063.12
39	44.58	1681.46	0.2733	10.3073		1.034256	39.0099		Centrilizers	4018.54
40	44.00	1725.46	0.2697	10.5771		1.0208	40.0307			3974.54
41	44.47	1769.93	0.2726	10.8497		1.031704	41.0624		Centrilizers	3930.07
42	44.60	1814.53	0.2734	11.1231		1.03472	42.0971			3885.47
43	44.58	1859.11	0.2733	11.3963		1.034256	43.1314		Centrilizers	3840.89
44	44.25	1903.36	0.2713	11.6676		1.0266	44.1580			3796.64
45	44.58	1947.94	0.2733	11.9409		1.034256	45.1922		Centrilizers	3752.06
46	44.47	1992.41	0.2726	12.2135		1.031704	46.2239			3707.59

47	44.58	2036.99	0.2733	12.4867		1.034256	47.2582		Centrilizers	3663.01
48	44.44	2081.43	0.2724	12.7592		1.031008	48.2892			3618.57
49	44.46	2125.89	0.2725	13.0317		1.031472	49.3206		Centrilizers	3574.11
50	44.14	2170.03	0.2706	13.3023		1.024048	50.3447			3529.97
51	44.56	2214.59	0.2732	13.5754		1.033792	51.3785			3485.41
52	44.60	2259.19	0.2734	13.8488		1.03472	52.4132			3440.81
53	44.60	2303.79	0.2734	14.1222		1.03472	53.4479			3396.21
54	44.59	2348.38	0.2733	14.3956		1.034488	54.4824			3351.62
55	44.44	2392.82	0.2724	14.6680		1.031008	55.5134			3307.18
56	44.58	2437.40	0.2733	14.9413		1.034256	56.5477			3262.60
57	44.50	2481.90	0.2728	15.2140		1.0324	57.5801			3218.10
58	44.50	2526.40	0.2728	15.4868		1.0324	58.6125			3173.60
59	44.46	2570.86	0.2725	15.7594		1.031472	59.6440			3129.14
60	44.47	2615.33	0.2726	16.0320		1.031704	60.6757			3084.67
61	44.45	2659.78	0.2725	16.3045		1.03124	61.7069			3040.22
62	44.46	2704.24	0.2725	16.5770		1.031472	62.7384			2995.76
63	44.61	2748.85	0.2735	16.8505		1.034952	63.7733			2951.15
64	44.45	2793.30	0.2725	17.1229		1.03124	64.8046			2906.70
65	44.59	2837.89	0.2733	17.3963		1.034488	65.8390			2862.11
66	44.60	2882.49	0.2734	17.6697		1.03472	66.8738			2817.51
67	44.45	2926.94	0.2725	17.9421		1.03124	67.9050			2773.06
68	44.60	2971.54	0.2734	18.2155		1.03472	68.9397			2728.46
69	44.48	3016.02	0.2727	18.4882		1.031936	69.9717			2683.98
70	44.60	3060.62	0.2734	18.7616		1.03472	71.0064			2639.38
71	44.49	3105.11	0.2727	19.0343		1.032168	72.0386			2594.89
72	39.92	3145.03	0.2447	19.2790		0.926144	72.9647			2554.97
73	44.61	3189.64	0.2735	19.5525		1.034952	73.9996			2510.36
74	38.90	3228.54	0.2385	19.7910		0.90248	74.9021			2471.46
75	44.60	3273.14	0.2734	20.0643		1.03472	75.9368			2426.86
76	44.14	3317.28	0.2706	20.3349		1.024048	76.9609			2382.72
77	44.57	3361.85	0.2732	20.6081		1.034024	77.9949		Centrilizers	2338.15
78	2.05	3363.90	0.0126	20.6207		0.04756	78.0425		DV TOOL	2336.10
79	44.47	3408.37	0.2726	20.8933		1.031704	79.0742		Centrilizers	2291.63
80	44.58	3452.95	0.2733	21.1666		1.034256	80.1084			2247.05
81	44.60	3497.55	0.2734	21.4400		1.03472	81.1432			2202.45
82	44.47	3542.02	0.2726	21.7126		1.031704	82.1749			2157.98
83	44.58	3586.60	0.2733	21.9859		1.034256	83.2091			2113.40
84	44.59	3631.19	0.2733	22.2592		1.034488	84.2436			2068.81
85	44.60	3675.79	0.2734	22.5326		1.03472	85.2783			2024.21
86	44.44	3720.23	0.2724	22.8050		1.031008	86.3093			1979.77
87	44.47	3764.70	0.2726	23.0776		1.031704	87.3410			1935.30
88	44.59	3809.29	0.2733	23.3509		1.034488	88.3755			1890.71
89	44.46	3853.75	0.2725	23.6235		1.031472	89.4070			1846.25
90	44.61	3898.36	0.2735	23.8969		1.034952	90.4420			1801.64
91	44.46	3942.82	0.2725	24.1695		1.031472	91.4734			1757.18
92	44.46	3987.28	0.2725	24.4420		1.031472	92.5049			1712.72
93	44.60	4031.88	0.2734	24.7154		1.03472	93.5396			1668.12
94	44.18	4076.06	0.2708	24.9862		1.024976	94.5646			1623.94
95	44.59	4120.65	0.2733	25.2596		1.034488	95.5991			1579.35
96	44.57	4165.22	0.2732	25.5328		1.034024	96.6331			1534.78
97	44.24	4209.46	0.2712	25.8040		1.026368	97.6595			1490.54
98	44.61	4254.07	0.2735	26.0774		1.034952	98.6944			1445.93
99	44.57	4298.64	0.2732	26.3507		1.034024	99.7284			1401.36

100	44.58	4343.22	0.2733	26.6239		1.034256	100.7627			1356.78
101	44.51	4387.73	0.2728	26.8968		1.032632	101.7953			1312.27
102	44.57	4432.30	0.2732	27.1700		1.034024	102.8294			1267.70
103	44.45	4476.75	0.2725	27.4425		1.03124	103.8606			1223.25
104	44.59	4521.34	0.2733	27.7158		1.034488	104.8951			1178.66
105	44.60	4565.94	0.2734	27.9892		1.03472	105.9298			1134.06
106	44.58	4610.52	0.2733	28.2625		1.034256	106.9641			1089.48
107	44.45	4654.97	0.2725	28.5350		1.03124	107.9953			1045.03
108	44.59	4699.56	0.2733	28.8083		1.034488	109.0298			1000.44
109	44.43	4743.99	0.2724	29.0807		1.030776	110.0606			956.01
110	44.59	4788.58	0.2733	29.3540		1.034488	111.0951			911.42
111	44.43	4833.01	0.2724	29.6264		1.030776	112.1258			866.99
112	44.61	4877.62	0.2735	29.8998		1.034952	113.1608			822.38
113	44.18	4921.80	0.2708	30.1706		1.024976	114.1858			778.20
114	44.56	4966.36	0.2732	30.4438		1.033792	115.2196			733.64
115	44.60	5010.96	0.2734	30.7172		1.03472	116.2543			689.04
116	44.59	5055.55	0.2733	30.9905		1.034488	117.2888			644.45
117	44.59	5100.14	0.2733	31.2639		1.034488	118.3232			599.86
118	44.58	5144.72	0.2733	31.5371		1.034256	119.3575			555.28
119	44.58	5189.30	0.2733	31.8104		1.034256	120.3918			510.70
120	39.46	5228.76	0.2419	32.0523		0.915472	121.3072			471.24
121	44.07	5272.83	0.2701	32.3224		1.022424	122.3297			427.17
122	44.60	5317.43	0.2734	32.5958		1.03472	123.3644			382.57
123	44.60	5362.03	0.2734	32.8692		1.03472	124.3991			337.97
124	44.48	5406.51	0.2727	33.1419		1.031936	125.4310			293.49
125	44.59	5451.10	0.2733	33.4152		1.034488	126.4655			248.90
126	44.59	5495.69	0.2733	33.6886		1.034488	127.5000			204.31
127	44.45	5540.14	0.2725	33.9611		1.03124	128.5312			159.86
128	44.17	5584.31	0.2708	34.2318		1.024744	129.5560			115.69
129	44.61	5628.92	0.2735	34.5053		1.034952	130.5909			71.08
130	44.26	5673.18	0.2713	34.7766		1.026832	131.6178			26.82
131	44.61	5717.79	0.2735	35.0501		1.034952	132.6527			-17.79
132	44.59	5762.38	0.2733	35.3234		1.034488	133.6872		OUT	-62.38
133	44.60	5806.98	0.2734	35.5968		1.03472	134.7219		OUT	-106.98
134	39.80	5846.78	0.2440	35.8408		0.92336	135.6453		OUT	-146.78
135	40.05	5886.83	0.2455	36.0863		0.92916	136.5745		OUT	-186.83
136	40.16	5926.99	0.2462	36.3324		0.931712	137.5062		OUT	-226.99
137		5926.99	0.0000	36.3324		0	137.5062			-226.99
138		5926.99	0.0000	36.3324		0	137.5062			-226.99
139		5926.99	0.0000	36.3324		0	137.5062			-226.99
140		5926.99	0.0000	36.3324		0	137.5062			-226.99
141		5926.99	0.0000	36.3324		0	137.5062			-226.99
142		5926.99	0.0000	36.3324		0	137.5062			-226.99
143		5926.99	0.0000	36.3324		0	137.5062			-226.99
144		5926.99	0.0000	36.3324		0	137.5062			-226.99
145		5926.99	0.0000	36.3324		0	137.5062			-226.99
146		5926.99	0.0000	36.3324		0	137.5062			-226.99
147		5926.99	0.0000	36.3324		0	137.5062			-226.99
148		5926.99	0.0000	36.3324		0	137.5062			-226.99
149		5926.99	0.0000	36.3324		0	137.5062			-226.99
150		5926.99	0.0000	36.3324		0	137.5062			-226.99
151		5926.99	0.0000	36.3324		0	137.5062			-226.99
152		5926.99	0.0000	36.3324		0	137.5062			-226.99

[illegible]

[illegible]

259	0.00	5926.99	0.0000	36.3324		0	137.5062			-226.99
260	0.00	5926.99	0.0000	36.3324		0	137.5062			-226.99
261	0.00	5926.99	0.0000	36.3324		0	137.5062			-226.99
262	0.00	5926.99	0.0000	36.3324		0	137.5062			-226.99
263	0.00	5926.99	0.0000	36.3324		0	137.5062			-226.99
264	0.00	5926.99	0.0000	36.3324		0	137.5062			-226.99
265	0.00	5926.99	0.0000	36.3324		0	137.5062			-226.99
266	0.00	5926.99	0.0000	36.3324		0	137.5062			-226.99
267	0.00	5926.99	0.0000	36.3324		0	137.5062			-226.99
268	0.00	5926.99	0.0000	36.3324		0	137.5062			-226.99
269	0.00	5926.99	0.0000	36.3324		0	137.5062			-226.99
270	0.00	5926.99	0.0000	36.3324		0	137.5062			-226.99
271	0.00	5926.99	0.0000	36.3324		0	137.5062			-226.99
272	0.00	5926.99	0.0000	36.3324		0	137.5062			-226.99
273	0.00	5926.99	0.0000	36.3324		0	137.5062			-226.99
274	0.00	5926.99	0.0000	36.3324		0	137.5062			-226.99
275	0.00	5926.99	0.0000	36.3324		0	137.5062			-226.99
276	0.00	5926.99	0.0000	36.3324		0	137.5062			-226.99
277	0.00	5926.99	0.0000	36.3324		0	137.5062			-226.99
278	0.00	5926.99	0.0000	36.3324		0	137.5062			-226.99
279	0.00	5926.99	0.0000	36.3324		0	137.5062			-226.99
280	0.00	5926.99	0.0000	36.3324		0	137.5062			-226.99
281	0.00	5926.99	0.0000	36.3324		0	137.5062			-226.99
282	0.00	5926.99	0.0000	36.3324		0	137.5062			-226.99