Form 3160-5
(April 2004)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD HOBBS
RECEIVED
DEC 21 2009
HOBBSOCD

FORM APPROVED
OM B 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 ☐ Other

2. Name of Operator **Nadel and Gussman HEYCO, LLC**

3a. Address **PO BOX 1936 ~ ROSWELL NM 88202-1936**

3b Phone No *(include area code)* **505.623.6601**

4 Location of Well *(Footage, Sec , T., R , M., or Survey Description)*
420' FNL & 660' FWL, Sec. 7, T18S, R32E, NW/4 NW/4

5. Lease Serial No. **NMNM-40450**

6 If Indian, Allottee or Tribe Name

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

8. Well Name and No. **Bola 7 Federal #4**

9. API Well No. **30-025-39554**

10. Field and Pool, or Exploratory Area **Young; Bone Spring North**

11 County or Parish, State **Lea, 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 **production csg and cmt report**
	☐ 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)

BLM Bond No. NMB00520
Surety Bond NO. B004230

Production String 11/30/09:
Run 223 jts. 5 1/2" 17# L-80 LTC set at 9210.61', Lead: 250 sk, 50/50 "H" 10% gel, .2%C-12, 5% salt .25% R-38, cmt wt 11.90, yeild 2.37, gals/sk 13.52. Tail: 1000 sk, Starbone "C" .5% fl-10, .5% c-12, .2% c-15, 3# gilsonite, 3% salt, .25% R-38, cmt wt 13.20, yeild 1.60, gal/sk 7.72. Centralizers placed @2x9179.90, 2x 9141.18, 9101.26, 9062.41, 9025.22, 8986.39, 8795.17, 8756.73, 8717.91, 8602.14, 8563.75, 8095.38, 8051.11, 7829.97, 7785.71, 7741.40, 6634.50, 6590.17, 5181.26, 5138.25, 4393.64, 4349.35.

No problems w/csg or cmt jobs. Plug dn 8:02 p.m. 11/30/09. Call Hobbs BLM, @ 5:00 pm. No BLM Rep. on location for csg or cmt job. No cmt circulation.

14 I hereby certify that the foregoing is true and correct
Name *(Printed/Typed)* **Tammy R. Link** Title **Production Tech**

Signature Tammy R. Link Date **12/01/2009**

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by PETROLEUM ENGINEER Title Date **ACCEPTED FOR RECORD DEC 21 2009**

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

DEC 14 2009
/s/ Dustin Winkler
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: **11/30/2009**

OPERATOR: NADEL & GUSSMAN HEYCO WELL: **BOLA 7 FEDERAL # 4**
CONTRACTOR: PATRIOT RIG: #1
REP: KEITH CANNON

CASING DETAIL

HOLE SIZE: 7 7/8 DEPTH: 9220'

7 78/" HOLE	9220.00
5 1/2" FLOAT SHOE	1.38
	9218.62
2 JTS 5 1/2" 17# L-80 LTC Csg	77.44
	9141.18
5 1/2" FLOAT COLLAR	1.10
	9140.80
18 JTS 5 1/2" 17# L-80 LTC Csg	690.67
	8449.41
121 JTS 5 1/2" 15.50# L-80 LT&C CSG	5324.60
	3124.81
82 JTS 5 1/2" 17# L-80 LT&C CSG	3115.42
	9.39
KB TO GL	18.50

CENTRALIZERS PLACED @ 2x 9179.90, 2x 9141.18, 9101.26, 9062.41, 9025.22, 8986.39, 8795.17, 8756.73, 8717.91, 8602.14, 8563.75, 8095.38, 8051.11, 7829.97, 7785.71, 7741.40, 6634.50, 6590.17, 5181.26, 5138.25, 4393.64, 4349.35

REMARKS:

TOTAL CASING DELIVERED.... 103 JTS (4188.08') 5 1/2" 17# & 123 JTS (5412.88') 5 1/2" 15.50# L-80 LTC
ALL CASING WAS DRIFTED, CLEANED, & VISUALLY INSPECTED ON LOCATION.
FLOAT SHOE, 2 SHOE JTS, FLOAT INSERT, WERE THREAD LOCKED.
TAGGED BOTTOM NO FILL. CIRCULATED CAPACITY & ANNULAR VOLUME

EXCESS CASING

CASING NOT USED .... 7 JTS 5 1/2" 17# (228.64') 2 JTS 5 1/2" 15.50# (88.38') L-80 LTC.
DISPOSITION .... 9 JTS 17#, 15.50# L-80 TRANSFERRED TO NGP YARD (ARTESIA)

CEMENTING DATA

COMPANY: RISING STAR DISTRICT: HOBBS

1ST STAGE:

PREFLUSH: 20 bbls FW, 20 bbls chemical wash

SUMMARY CASING AND CEMENTING REPORT

LEAD:	250 SK, 50/50 "H" 10%GEL, .2%C-12, 5% SALT .25%R-38, CMT WT 11.90, YIELD 2.37, GAL/SK 13.52
TAIL:	1000 SK, STARBONE "C" .5%FL-10, .5%C-12, .2%C-15, 3#GILSONITE, 3%SALT, .25%R-38, CMT WT 13.20, YIELD 1.60, GAL/SK 7.72
NOTE:	NO PROBLEMS W/ CSG OR CMT JOBS. PLUG DN 8:02 PM 11/30/09. CALL HOBBS BLM, @ 5:00PM. NO BLM REP.ON LOCATION FOR CSG OR CMT JOB. NO CMT CIRC.

RISING STAR Services
Oilfield Cementing & Acidizing

	Date:	Time:
Truck Called:	11/30/09	1100am
Arrived at job:	11/30/09	304pm
Start Job:	11/30/09	549pm
Finish Job:	11/30/09	806pm
Leave Location:		

Job Log

RISING STAR SERVICES LP.	Customer Name:	Nadel & Gussman Heyco		Ticket Number:	17729
P.O. BOX 61193	Lease Name:	Bola 7 Fed.			
MIDLAND, TEXAS 79711	Well #:	4		Supervisor:	John Garza
OFFICE # 432-617-0114	Type of Job:	5 1/2 Long String		County:	Lea
FAX #432-339-0140	Date:	11/30/2009	CUSTOMER REPRESENTATIVE:		Keith Cannon

Tubing Size:	N/A	Casing size:	5.5	Liner size:	N/A	
Tubing weight:	N/A	Casing weight:	17	Top of Liner:	N/A	
Tubing bbl/lnft	N/A	Total Depth:	9220	Bottom of Liner:	N/A	
Retainer depth:	N/A	Total Pipe:	9210.61	Annular Volume:	N/A	
Packer depth:	N/A	Open Hole:	7 7/8	BHST:	N/A	
Perfs:	N/A	Shoe Joint:	77.44	BHCT:	N/A	
Holes in casing:	N/A	Displacement:	212.2 bbls	Maximum:	4000	Psi
		Pre-Flush:	10 bbls			

	Sks.	Cement Additives							
Lead Cement:	250	50/50/C+10%Gel+2/10%C-12+5%Salt+.25%R-38							
	Cmt. Wt.	11.90	Yield	2.37	Gal/sk	13.52	Mixing Water:	80.48	:bbls
							Total Ft.³:	592.50	ft.³
Middle Cement:									
	Cmt. Wt.		Yield		Gal/sk		Mixing Water:		:bbls
							Total Ft.³:		ft.³
Tail Cement:	1000	Starbond C+5/10%FL-10+5/10%C-12+2/10%C-15+3#Gilsonite+3% Salt+.25%R-38							
	Cmt. Wt.	13.20	Yield	1.60	Gal/sk	7.72	Mixing Water:	183.81	:bbls
							Total Ft.³:	1600.00	ft.³
	Cmt. Wt.		Yield		Gal/sk		Mixing Water:		:bbls
							Total Ft.³:		ft.³

Total sks:	1250	sks.	Total Bbls. Cmt.:	390.48 :Bbls	Total Water for Job:
Total Ft.³:	2193	ft.³	Total Mix Water:	264.29 :Bbls	500.00 :Bbls

Acid Systems

Acid System:		Gallons	
Diverter:		Balls	Coarse Rock Salt

	Injection Rate:			Job Pressures	
Time	Rate:	Bbls in		Tbg psi.	Csg psi
302pm					
310pm					
315pm					
400pm					
510pm					
549pm	1	2			5000
551pm	5	10			400
553pm	5.5	105			400
615pm	5	284			500
707pm					
708pm					

Job Log Remarks:

Arrive on location
Spot equipment
Rig up iron
Test H2O
Safety meeting
Pressure test lines
Fw spacer
Lead slurry @ 11.9ppg 250sxs.
Tail slurry @ 13.2ppg 1000 sxs.
Wash pump & lines
Drop plug

SERVICE REPRESENTATIVE:	Signature Please	CUSTOMER REPRESENATIVE:	Signature Please
JOHN GARZA		X	

RISING STAR Oilfield Cementing Services & Acidizing

Ticket Number: **17729**

Lease: **Bola 7 Fed.**

Customer: **Nadel & Gussman Heyco**

Well: **4**

Date **11/30/2009**

Job Type: **5 1/2 Long String**

	Injection Rate:			Job Pressures		**Job Log Remarks:**
Time	Rate:	Bbls in		Tbg psi.	Csg psi	
714pm	7	200			400	Displacement
759pm	2.1	7			2490	Slow rate
802pm					3080	Bump plug
803pm						Check float (did not hold)
805pm	1.5	2			2880	Re-bump plug
806pm						Check float (held)
						Rising Star release
						Thank-you John & crew

Thank you for your business, your patronage is greatly appreciated!!!

SERVICE REPRESENTATIVE:	Signature Please	CUSTOMER REPRESENATIVE:	Signature Please
JOHN GARZA		*X*	

DATE : 11/30/2009		WELL :				BOLA 7 FEDERAL # 7				
Casing OD	5 1/2	Grade	L-80	Displacement bbl/ft		0.00613	Burst	7740	Torque	3410
Casing ID	4.950/4.892	Weight	15.5 / 17	Capacity bbl/ft		0.02320	Collapse	6290	2440 - 3050	3000
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 9220
1	1.38	1.38	0.0085	0.0085		0.032016	0.0320			9218.62
2	38.72	40.10	0.2374	0.2458		0.898304	0.9303		2x centrilrzer	9179.90
3	38.72	78.82	0.2374	0.4832		0.898304	1.8286		2x centrilrzer	9141.18
4	1.10	79.92	0.0067	0.4899		0.02552	1.8541			9140.08
5	38.82	118.74	0.2380	0.7279		0.900624	2.7548		Centrilizers	9101.26
6	38.85	157.59	0.2382	0.9660		0.90132	3.6561		Centrilizers	9062.41
7	37.19	194.78	0.2280	1.1940		0.862808	4.5189		Centrilizers	9025.22
8	38.83	233.61	0.2380	1.4320		0.900856	5.4198		Centrilizers	8986.39
9	38.50	272.11	0.2360	1.6680		0.8932	6.3130			8947.89
10	38.40	310.51	0.2354	1.9034		0.89088	7.2038			8909.49
11	38.00	348.51	0.2329	2.1364		0.8816	8.0854			8871.49
12	37.70	386.21	0.2311	2.3675		0.87464	8.9601			8833.79
13	38.62	424.83	0.2367	2.6042		0.895984	9.8561		Centrilizers	8795.17
14	38.44	463.27	0.2356	2.8398		0.891808	10.7479		Centrilizers	8756.73
15	38.82	502.09	0.2380	3.0778		0.900624	11.6485		Centrilizers	8717.91
16	37.92	540.01	0.2324	3.3103		0.879744	12.5282		Centrilizers	8679.99
17	38.84	578.85	0.2381	3.5484		0.901088	13.4293			8641.15
18	39.01	617.86	0.2391	3.7875		0.905032	14.3344		Centrilizers	8602.14
19	38.39	656.25	0.2353	4.0228		0.890648	15.2250		Centrilizers	8563.75
20	38.37	694.62	0.2352	4.2580		0.890184	16.1152			8525.38
21	38.49	733.11	0.2359	4.4940		0.892968	17.0082			8486.89
22	37.48	770.59	0.2298	4.7237		0.869536	17.8777			8449.41
23	44.26	814.85	0.2713	4.9950		1.026832	18.9045			8405.15
24	44.27	859.12	0.2714	5.2664		1.027064	19.9316			8360.88
25	44.28	903.40	0.2714	5.5378		1.027296	20.9589			8316.60
26	44.14	947.54	0.2706	5.8084		1.024048	21.9829			8272.46
27	44.28	991.82	0.2714	6.0799		1.027296	23.0102			8228.18
28	44.27	1036.09	0.2714	6.3512		1.027064	24.0373			8183.91
29	44.26	1080.35	0.2713	6.6225		1.026832	25.0641			8139.65
30	44.27	1124.62	0.2714	6.8939		1.027064	26.0912		Centrilizers	8095.38
31	44.27	1168.89	0.2714	7.1653		1.027064	27.1182		Centrilizers	8051.11
32	44.10	1212.99	0.2703	7.4356		1.02312	28.1414			8007.01
33	44.30	1257.29	0.2716	7.7072		1.02776	29.1691			7962.71
34	44.27	1301.56	0.2714	7.9786		1.027064	30.1962			7918.44
35	44.23	1345.79	0.2711	8.2497		1.026136	31.2223			7874.21
36	44.24	1390.03	0.2712	8.5209		1.026368	32.2487		Centrilizers	7829.97
37	44.26	1434.29	0.2713	8.7922		1.026832	33.2755		Centrilizers	7785.71
38	44.31	1478.60	0.2716	9.0638		1.027992	34.3035		Centrilizers	7741.40
39	44.30	1522.90	0.2716	9.3354		1.02776	35.3313			7697.10
40	44.27	1567.17	0.2714	9.6068		1.027064	36.3583			7652.83
41	44.27	1611.44	0.2714	9.8781		1.027064	37.3854			7608.56
42	44.24	1655.68	0.2712	10.1493		1.026368	38.4118			7564.32
43	44.09	1699.77	0.2703	10.4196		1.022888	39.4347			7520.23
44	44.24	1744.01	0.2712	10.6908		1.026368	40.4610			7475.99
45	44.30	1788.31	0.2716	10.9623		1.02776	41.4888			7431.69
46	44.29	1832.60	0.2715	11.2338		1.027528	42.5163			7387.40

47	44.31	1876.91	0.2716	11.5055		1.027992	43.5443			7343.09
48	44.33	1921.24	0.2717	11.7772		1.028456	44.5728			7298.76
49	44.31	1965.55	0.2716	12.0488		1.027992	45.6008			7254.45
50	44.28	2009.83	0.2714	12.3203		1.027296	46.6281			7210.17
51	44.27	2054.10	0.2714	12.5916		1.027064	47.6551			7165.90
52	44.32	2098.42	0.2717	12.8633		1.028224	48.6833			7121.58
53	44.32	2142.74	0.2717	13.1350		1.028224	49.7116			7077.26
54	44.29	2187.03	0.2715	13.4065		1.027528	50.7391			7032.97
55	44.28	2231.31	0.2714	13.6779		1.027296	51.7664			6988.69
56	44.22	2275.53	0.2711	13.9490		1.025904	52.7923			6944.47
57	44.26	2319.79	0.2713	14.2203		1.026832	53.8191			6900.21
58	44.30	2364.09	0.2716	14.4919		1.02776	54.8469			6855.91
59	44.24	2408.33	0.2712	14.7631		1.026368	55.8733			6811.67
60	44.31	2452.64	0.2716	15.0347		1.027992	56.9012			6767.36
61	44.27	2496.91	0.2714	15.3061		1.027064	57.9283			6723.09
62	44.29	2541.20	0.2715	15.5776		1.027528	58.9558			6678.80
63	44.30	2585.50	0.2716	15.8491		1.02776	59.9836		Centrilizers	6634.50
64	44.33	2629.83	0.2717	16.1209		1.028456	61.0121		Centrilizers	6590.17
65	44.31	2674.14	0.2716	16.3925		1.027992	62.0400			6545.86
66	44.36	2718.50	0.2719	16.6644		1.029152	63.0692			6501.50
67	44.16	2762.66	0.2707	16.9351		1.024512	64.0937			6457.34
68	44.34	2807.00	0.2718	17.2069		1.028688	65.1224			6413.00
69	44.31	2851.31	0.2716	17.4785		1.027992	66.1504			6368.69
70	44.28	2895.59	0.2714	17.7500		1.027296	67.1777			6324.41
71	44.26	2939.85	0.2713	18.0213		1.026832	68.2045			6280.15
72	44.29	2984.14	0.2715	18.2928		1.027528	69.2320			6235.86
73	44.17	3028.31	0.2708	18.5635		1.024744	70.2568			6191.69
74	44.33	3072.64	0.2717	18.8353		1.028456	71.2852			6147.36
75	44.32	3116.96	0.2717	19.1070		1.028224	72.3135			6103.04
76	44.08	3161.04	0.2702	19.3772		1.022656	73.3361			6058.96
77	44.32	3205.36	0.2717	19.6489		1.028224	74.3644			6014.64
78	44.26	3249.62	0.2713	19.9202		1.026832	75.3912			5970.38
79	44.31	3293.93	0.2716	20.1918		1.027992	76.4192			5926.07
80	44.27	3338.20	0.2714	20.4632		1.027064	77.4462			5881.80
81	44.29	3382.49	0.2715	20.7347		1.027528	78.4738			5837.51
82	44.28	3426.77	0.2714	21.0061		1.027296	79.5011			5793.23
83	44.29	3471.06	0.2715	21.2776		1.027528	80.5286			5748.94
84	44.30	3515.36	0.2716	21.5492		1.02776	81.5564			5704.64
85	44.31	3559.67	0.2716	21.8208		1.027992	82.5843			5660.33
86	44.19	3603.86	0.2709	22.0917		1.025208	83.6096			5616.14
87	44.24	3648.10	0.2712	22.3629		1.026368	84.6359			5571.90
88	44.25	3692.35	0.2713	22.6341		1.0266	85.6625			5527.65
89	44.29	3736.64	0.2715	22.9056		1.027528	86.6900			5483.36
90	44.14	3780.78	0.2706	23.1762		1.024048	87.7141			5439.22
91	44.26	3825.04	0.2713	23.4475		1.026832	88.7409			5394.96
92	36.52	3861.56	0.2239	23.6714		0.847264	89.5882			5358.44
93	44.35	3905.91	0.2719	23.9432		1.02892	90.6171			5314.09
94	44.27	3950.18	0.2714	24.2146		1.027064	91.6442			5269.82
95	44.30	3994.48	0.2716	24.4862		1.02776	92.6719			5225.52
96	44.26	4038.74	0.2713	24.7575		1.026832	93.6988		Centrilizers	5181.26
97	43.01	4081.75	0.2637	25.0211		0.997832	94.6966		Centrilizers	5138.25
98	44.29	4126.04	0.2715	25.2926		1.027528	95.7241			5093.96
99	44.26	4170.30	0.2713	25.5639		1.026832	96.7510			5049.70

100	36.13	4206.43	0.2215	25.7854		0.838216	97.5892			5013.57
101	44.31	4250.74	0.2716	26.0570		1.027992	98.6172			4969.26
102	44.25	4294.99	0.2713	26.3283		1.0266	99.6438			4925.01
103	44.28	4339.27	0.2714	26.5997		1.027296	100.6711			4880.73
104	44.30	4383.57	0.2716	26.8713		1.02776	101.6988			4836.43
105	44.31	4427.88	0.2716	27.1429		1.027992	102.7268			4792.12
106	44.27	4472.15	0.2714	27.4143		1.027064	103.7539			4747.85
107	44.27	4516.42	0.2714	27.6857		1.027064	104.7809			4703.58
108	44.24	4560.66	0.2712	27.9568		1.026368	105.8073			4659.34
109	44.29	4604.95	0.2715	28.2283		1.027528	106.8348			4615.05
110	44.30	4649.25	0.2716	28.4999		1.02776	107.8626			4570.75
111	44.29	4693.54	0.2715	28.7714		1.027528	108.8901			4526.46
112	44.23	4737.77	0.2711	29.0425		1.026136	109.9163			4482.23
113	44.31	4782.08	0.2716	29.3142		1.027992	110.9443			4437.92
114	44.28	4826.36	0.2714	29.5856		1.027296	111.9716		Centrilizers	4393.64
115	44.29	4870.65	0.2715	29.8571		1.027528	112.9991		Centrilizers	4349.35
116	44.28	4914.93	0.2714	30.1285		1.027296	114.0264			4305.07
117	44.33	4959.26	0.2717	30.4003		1.028456	115.0548			4260.74
118	44.24	5003.50	0.2712	30.6715		1.026368	116.0812			4216.50
119	44.18	5047.68	0.2708	30.9423		1.024976	117.1062			4172.32
120	44.28	5091.96	0.2714	31.2137		1.027296	118.1335			4128.04
121	44.31	5136.27	0.2716	31.4853		1.027992	119.1615			4083.73
122	44.25	5180.52	0.2713	31.7566		1.0266	120.1881			4039.48
123	36.17	5216.69	0.2217	31.9783		0.839144	121.0272			4003.31
124	44.29	5260.98	0.2715	32.2498		1.027528	122.0547			3959.02
125	44.28	5305.26	0.2714	32.5212		1.027296	123.0820			3914.74
126	44.13	5349.39	0.2705	32.7918		1.023816	124.1058			3870.61
127	44.28	5393.67	0.2714	33.0632		1.027296	125.1331			3826.33
128	44.32	5437.99	0.2717	33.3349		1.028224	126.1614			3782.01
129	44.22	5482.21	0.2711	33.6059		1.025904	127.1873			3737.79
130	44.29	5526.50	0.2715	33.8774		1.027528	128.2148			3693.50
131	37.18	5563.68	0.2279	34.1054		0.862576	129.0774			3656.32
132	44.29	5607.97	0.2715	34.3769		1.027528	130.1049			3612.03
133	44.28	5652.25	0.2714	34.6483		1.027296	131.1322			3567.75
134	44.35	5696.60	0.2719	34.9202		1.02892	132.1611			3523.40
135	44.31	5740.91	0.2716	35.1918		1.027992	133.1891			3479.09
136	44.27	5785.18	0.2714	35.4632		1.027064	134.2162			3434.82
137	44.30	5829.48	0.2716	35.7347		1.02776	135.2439			3390.52
138	44.21	5873.69	0.2710	36.0057		1.025672	136.2696			3346.31
139	44.31	5918.00	0.2716	36.2773		1.027992	137.2976			3302.00
140	44.31	5962.31	0.2716	36.5490		1.027992	138.3256			3257.69
141	44.31	6006.62	0.2716	36.8206		1.027992	139.3536			3213.38
142	44.29	6050.91	0.2715	37.0921		1.027528	140.3811			3169.09
143	44.28	6095.19	0.2714	37.3635		1.027296	141.4084			3124.81
144	38.50	6133.69	0.2360	37.5995		0.8932	142.3016			3086.31
145	38.22	6171.91	0.2343	37.8338		0.886704	143.1883			3048.09
146	38.76	6210.67	0.2376	38.0714		0.899232	144.0875			3009.33
147	37.44	6248.11	0.2295	38.3009		0.868608	144.9562			2971.89
148	37.98	6286.09	0.2328	38.5337		0.881136	145.8373			2933.91
149	37.94	6324.03	0.2326	38.7663		0.880208	146.7175			2895.97
150	37.77	6361.80	0.2315	38.9978		0.876264	147.5938			2858.20
151	37.86	6399.66	0.2321	39.2299		0.878352	148.4721			2820.34
152	37.91	6437 57	0.2324	39.4623		0.879512	149.3516			2782.43

153	37.70	6475.27	0.2311	39.6934		0.87464	150.2263			2744.73
154	38.84	6514.11	0.2381	39.9315		0.901088	151.1274			2705.89
155	37.89	6552.00	0.2323	40.1638		0.879048	152.0064			2668.00
156	38.86	6590.86	0.2382	40.4020		0.901552	152.9080			2629.14
157	38.85	6629.71	0.2382	40.6401		0.90132	153.8093			2590.29
158	38.85	6668.56	0.2382	40.8783		0.90132	154.7106			2551.44
159	38.84	6707.40	0.2381	41.1164		0.901088	155.6117			2512.60
160	38.85	6746.25	0.2382	41.3545		0.90132	156.5130			2473.75
161	38.86	6785.11	0.2382	41.5927		0.901552	157.4146			2434.89
162	38.73	6823.84	0.2374	41.8301		0.898536	158.3131			2396.16
163	38.84	6862.68	0.2381	42.0682		0.901088	159.2142			2357.32
164	38.88	6901.56	0.2383	42.3066		0.902016	160.1162			2318.44
165	38.85	6940.41	0.2382	42.5447		0.90132	161.0175			2279.59
166	38.85	6979.26	0.2382	42.7829		0.90132	161.9188			2240.74
167	38.74	7018.00	0.2375	43.0203		0.898768	162.8176			2202.00
168	38.82	7056.82	0.2380	43.2583		0.900624	163.7182			2163.18
169	38.84	7095.66	0.2381	43.4964		0.901088	164.6193			2124.34
170	38.83	7134.49	0.2380	43.7344		0.900856	165.5202			2085.51
171	38.84	7173.33	0.2381	43.9725		0.901088	166.4213			2046.67
172	38.83	7212.16	0.2380	44.2105		0.900856	167.3221			2007.84
173	38.82	7250.98	0.2380	44.4485		0.900624	168.2227			1969.02
174	38.85	7289.83	0.2382	44.6867		0.90132	169.1241			1930.17
175	38.75	7328.58	0.2375	44.9242		0.899	170.0231			1891.42
176	38.87	7367.45	0.2383	45.1625		0.901784	170.9248			1852.55
177	38.85	7406.30	0.2382	45.4006		0.90132	171.8262			1813.70
178	38.85	7445.15	0.2382	45.6388		0.90132	172.7275			1774.85
179	38.74	7483.89	0.2375	45.8762		0.898768	173.6262			1736.11
180	38.88	7522.77	0.2383	46.1146		0.902016	174.5283			1697.23
181	38.74	7561.51	0.2375	46.3521		0.898768	175.4270			1658.49
182	38.32	7599.83	0.2349	46.5870		0.889024	176.3161			1620.17
183	38.74	7638.57	0.2375	46.8244		0.898768	177.2148			1581.43
184	38.40	7676.97	0.2354	47.0598		0.89088	178.1057			1543.03
185	38.86	7715.83	0.2382	47.2980		0.901552	179.0073			1504.17
186	38.84	7754.67	0.2381	47.5361		0.901088	179.9083			1465.33
187	38.86	7793.53	0.2382	47.7743		0.901552	180.8099			1426.47
188	37.78	7831.31	0.2316	48.0059		0.876496	181.6864			1388.69
189	38.87	7870.18	0.2383	48.2442		0.901784	182.5882			1349.82
190	38.42	7908.60	0.2355	48.4797		0.891344	183.4795			1311.40
191	38.39	7946.99	0.2353	48.7150		0.890648	184.3702			1273.01
192	38.48	7985.47	0.2359	48.9509		0.892736	185.2629			1234.53
193	38.28	8023.75	0.2347	49.1856		0.888096	186.1510			1196.25
194	38.16	8061.91	0.2339	49.4195		0.885312	187.0363			1158.09
195	37.80	8099.71	0.2317	49.6512		0.87696	187.9133			1120.29
196	38.86	8138.57	0.2382	49.8894		0.901552	188.8148			1081.43
197	38.41	8176.98	0.2355	50.1249		0.891112	189.7059			1043.02
198	33.79	8210.77	0.2071	50.3320		0.783928	190.4899			1009.23
199	33.55	8244.32	0.2057	50.5377		0.77836	191.2682			975.68
200	33.11	8277.43	0.2030	50.7406		0.768152	192.0364			942.57
201	33.58	8311.01	0.2058	50.9465		0.779056	192.8154			908.99
202	33.94	8344.95	0.2081	51.1545		0.787408	193.6028			875.05
203	37.94	8382.89	0.2326	51.3871		0.880208	194.4830			837.11
204	38.95	8421.84	0.2388	51.6259		0.90364	195.3867			798.16
205	37.57	8459.41	0.2303	51.8562		0.871624	196.2583			760.59

206	38.08	8497.49	0.2334	52.0896		0.883456	197.1418			722.51
207	38.32	8535.81	0.2349	52.3245		0.889024	198.0308			684.19
208	38.46	8574.27	0.2358	52.5603		0.892272	198.9231			645.73
209	37.98	8612.25	0.2328	52.7931		0.881136	199.8042			607.75
210	36.87	8649.12	0.2260	53.0191		0.855384	200.6596			570.88
211	38.47	8687.59	0.2358	53.2549		0.892504	201.5521			532.41
212	33.94	8721.53	0.2081	53.4630		0.787408	202.3395			498.47
213	33.73	8755.26	0.2068	53.6697		0.782536	203.1220			464.74
214	37.32	8792.58	0.2288	53.8985		0.865824	203.9879			427.42
215	37.76	8830.34	0.2315	54.1300		0.876032	204.8639			389.66
216	38.18	8868.52	0.2340	54.3640		0.885776	205.7497			351.48
217	38.53	8907.05	0.2362	54.6002		0.893896	206.6436			312.95
218	37.57	8944.62	0.2303	54.8305		0.871624	207.5152			275.38
219	37.92	8982.54	0.2324	55.0630		0.879744	208.3949			237.46
220	38.41	9020.95	0.2355	55.2984		0.891112	209.2860			199.05
221	38.76	9059.71	0.2376	55.5360		0.899232	210.1853			160.29
222	37.77	9097.48	0.2315	55.7676		0.876264	211.0615			122.52
223	38.17	9135.65	0.2340	56.0015		0.885544	211.9471			84.35
224	37.16	9172.81	0.2278	56.2293		0.862112	212.8092			47.19
225	37.80	9210.61	0.2317	56.4610		0.87696	213.6862			9.39
226	38.72	9249.33	0.2374	56.6984		0.898304	214.5845		OUT	-29.33
227	37.19	9286.52	0.2280	56.9264		0.862808	215.4473		OUT	-66.52
228	38.04	9324.56	0.2332	57.1596		0.882528	216.3298		OUT	-104.56
229	37.91	9362.47	0.2324	57.3919		0.879512	217.2093		OUT	-142.47
230	38.59	9401.06	0.2366	57.6285		0.895288	218.1046		OUT	-181.06
231	38.00	9439.06	0.2329	57.8614		0.8816	218.9862		OUT	-219.06
232	37.90	9476.96	0.2323	58.0938		0.87928	219.8655		OUT	-256.96
233	38.20	9515.16	0.2342	58.3279		0.88624	220.7517		OUT	-295.16
234	44.10	9559.26	0.2703	58.5983		1.02312	221.7748		BAD BOX	-339.26
235	44.28	9603.54	0.2714	58.8697		1.027296	222.8021		NO DRIFT	-383.54
236	0.00	9603.54	0.0000	58.8697		0	222.8021			-383.54
237	0.00	9603.54	0.0000	58.8697		0	222.8021			-383.54
238	0.00	9603.54	0.0000	58.8697		0	222.8021			-383.54
239	0.00	9603.54	0.0000	58.8697		0	222.8021			-383.54
240	0.00	9603.54	0.0000	58.8697		0	222.8021			-383.54
241	0.00	9603.54	0.0000	58.8697		0	222.8021			-383.54
242	0.00	9603.54	0.0000	58.8697		0	222.8021			-383.54
243	0.00	9603.54	0.0000	58.8697		0	222.8021			-383.54
244	0.00	9603.54	0.0000	58.8697		0	222.8021			-383.54
245	0.00	9603.54	0.0000	58.8697		0	222.8021			-383.54
246	0.00	9603.54	0.0000	58.8697		0	222.8021			-383.54
247	0.00	9603.54	0.0000	58.8697		0	222.8021			-383.54
248	0.00	9603.54	0.0000	58.8697		0	222.8021			-383.54
249	0.00	9603.54	0.0000	58.8697		0	222.8021			-383.54
250	0.00	9603.54	0.0000	58.8697		0	222.8021			-383.54
251	0.00	9603.54	0.0000	58.8697		0	222.8021			-383.54
252	0.00	9603.54	0.0000	58.8697		0	222.8021			-383.54
253	0.00	9603.54	0.0000	58.8697		0	222.8021			-383.54
254	0.00	9603.54	0.0000	58.8697		0	222.8021			-383.54
255	0.00	9603.54	0.0000	58.8697		0	222.8021			-383.54
256	0.00	9603.54	0.0000	58.8697		0	222.8021			-383.54
257	0.00	9603.54	0.0000	58.8697		0	222.8021			-383.54
258	0.00	9603.54	0.0000	58.8697		0	222.8021			-383.54

MAN WELDING SERVICES

WELDING • BOP TESTING
NIPPLE UP SERVICE • BOP LIFTS • TANDEM
MUD AND GAS SEPARATORS
Lovington, NM • 575-396-4540

INVOICE

B10347

Company NADEL & GUSSMAN Date 11/16/09 Start Time 8:00 ☒ am ☐ pm

Lease BOLA 7 FED #4 County LEA State NM

Company Man KEITH CONDER

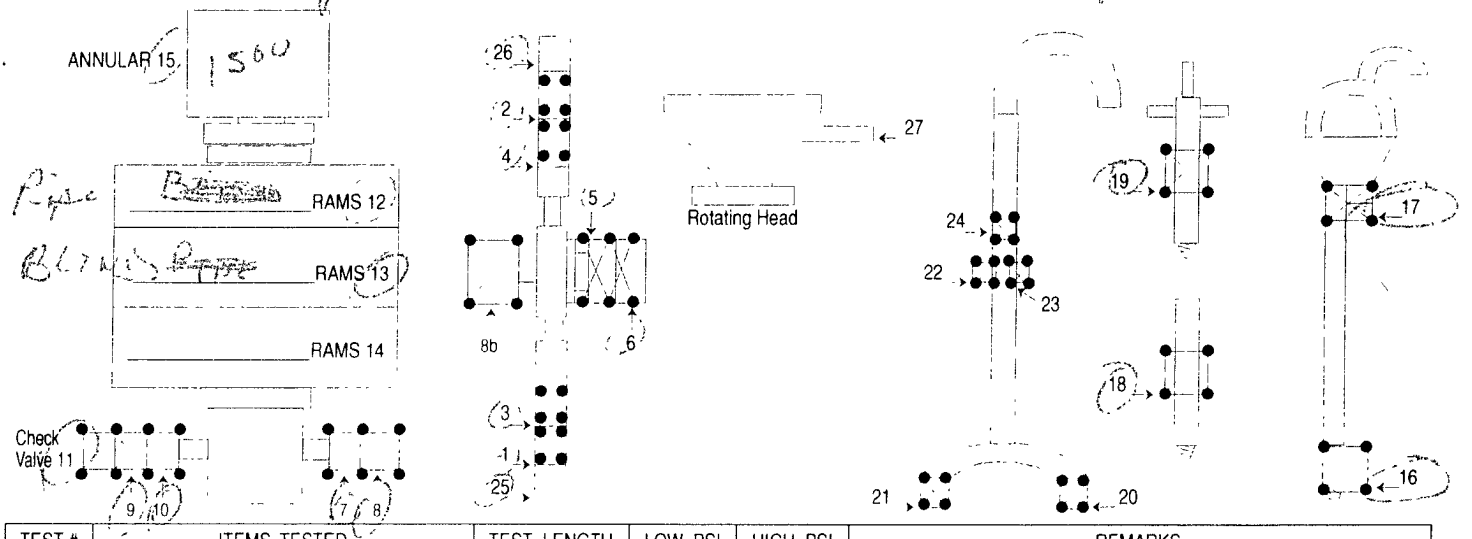
Wellhead Vendor _____ Tester KIRKPATRICK / DEMORY

Drlg. Contractor PATRIOT Rig # 1

Tool Pusher BARRY A.

Plug Type 3-2-2 Plug Size 11" Drill Pipe Size 4½ XH

Casing Valve Opened open Check Valve Open open



TEST #	ITEMS TESTED	TEST LENGTH	LOW PSI	HIGH PSI	REMARKS
1	1, 2, 6	10/10	250	3000	
2	25, 26, 5	10/10	250	3000	
3	3, 4, 5	10/10	250	3000	
4	19	10/10	250	3000	
5	18	10/10	250	3000	
6	3, 4, 5, 9, 13	10/10	250	3000	
7	3, 4, 5, 10, 13	10/10	250	3000	
8	10, 12, 8	10/10	250	3000	
9	12, 10, 7	10/10	250	3000	
10	15, 10, 7	10/10	250	1500	
11	16	10/10	250	3000	
12	17	10/10	250	3000	

8 HR @ [redacted] [redacted]

HR @ _____

Mileage 80 @ [redacted] [redacted]

SUB TOTAL [redacted]

TAX

TOTAL

MASTER PRINTERS 575 396 3661

MAN WELDING SERVICES, INC

Company NADEL & GUSSMAN Date 11/16/09

Lease BOLA 7 FED #4 County LEA Co. N.M.

Drilling Contractor PATRIOT Rig 1 Plug & Drill Pipe Size 11" C-22, 4½ XH

Accumulator Function Test - OO&GO#2

To Check - USABLE FLUID IN THE NITROGEN BOTTLES (III.A.2.c.i. or ii or iii)

30% FLUID

- Make sure all rams and annular are open and if applicable HCR is closed.
- Ensure accumulator is pumped up to working pressure! **(Shut off all pumps)**

10 X 36 X 72 = 1109AL/

1. Open HCR Valve. (If applicable)
2. Close annular. 8-10 GAL BOTTLES = 40 GAL
3. Close **all** pipe rams.
4. Open one set of the pipe rams to simulate closing the blind ram.
5. For 3 ram stacks, open the annular to achieve the 50+ % safety factor. (5M and greater systems).
6. **Record remaining pressure** 1500 **psi. Test Fails if pressure is lower than required.**

- **a.**{**950** psi for a 1500 psi system} **b.** {**1200** psi for a 2000 & 3000 psi system }

7. If annular is closed, open it at this time and close HCR. REMOTE ON FLOOR

To Check - PRECHARGE ON BOTTLES OR SPHERICAL (III.A.2.d.) 1" [redacted] VALVE IN CLOSING LINE of HYDRIL

- Start with manifold pressure at, or above, maximum acceptable pre-charge pressure:
  a. {**800** psi for a 1500 psi system} **b.** {**1100** psi for 2000 and 3000 psi system}

@ START UP

1. Open bleed line to the tank, slowly. **(gauge needle will drop at the lowest bottle pressure)**
2. Close bleed line. Barely bump electric pump and see what pressure the needle jumps up to.
3. **Record pressure drop** 1100 **psi. Test fails if pressure drops below minimum.**

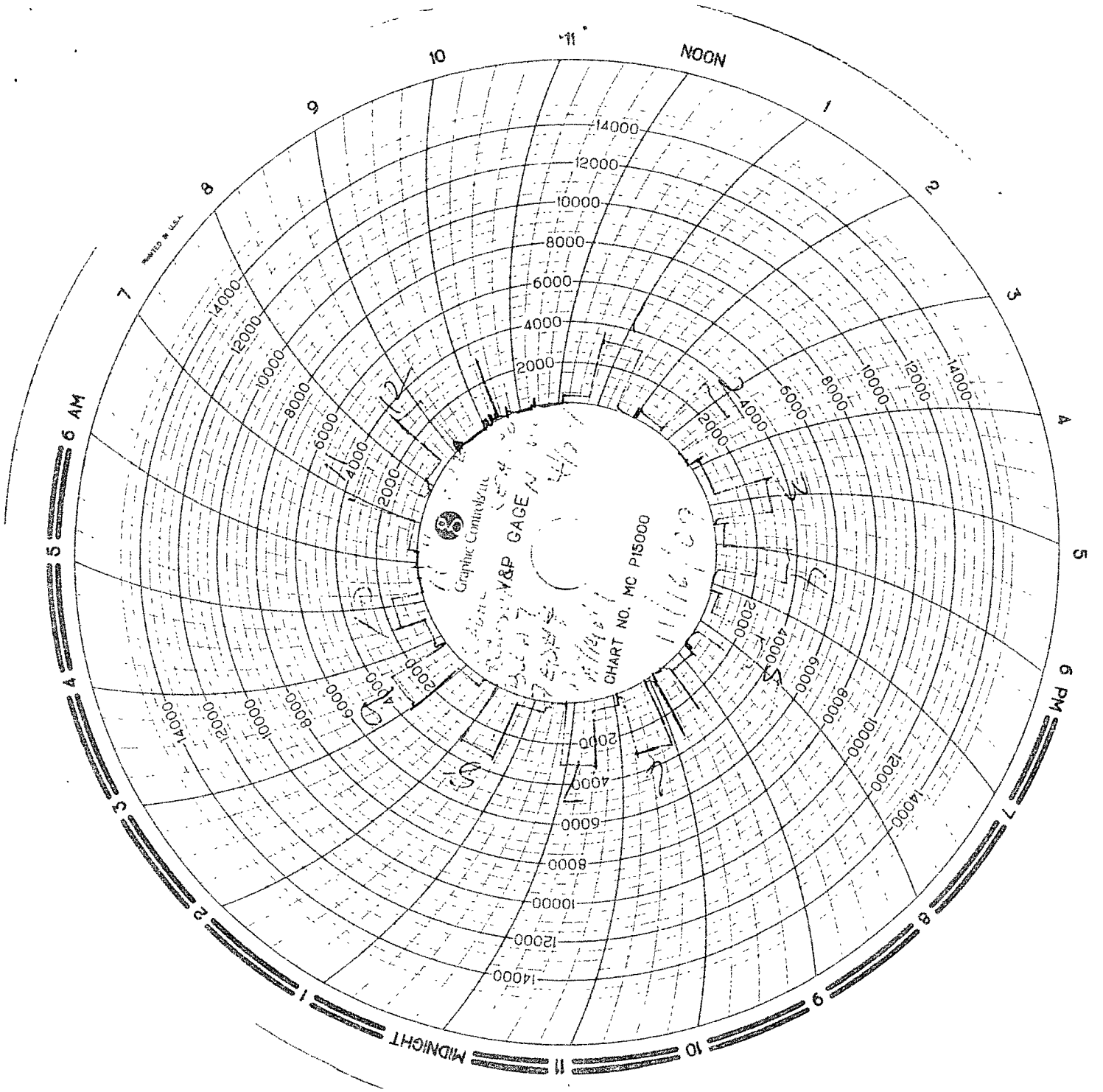
- **Minimum: a.**{**700** psi for a 1500 psi system } b. {**900** psi for a 2000 & 3000 psi system}

To Check - THE CAPACITY OF THE ACCUMULATOR PUMPS (III.A.2.f.)

- Isolate the accumulator bottles or spherical from the pumps & manifold.
- Open the bleed off valve to the tank, {manifold psi should go to 0 psi} close bleed valve.

1. Open the HCR valve, {if applicable}
2. Close annular
3. With **pumps** only, time how long it takes to regain the required manifold pressure.
4. **Record elapsed time** 1:30 **. Test fails if it takes over 2 minutes.**

- **a.** {**950** psi for a 1500 psi system} **b.** {**1200** psi for a 2000 & 3000 psi system)


NOON
1
2
3
4
5
6 PM
7
8
9
10
11
MIDNIGHT
1
2
3
4
5
6 AM
7
8
9
10
11
2000
4000
6000
8000
10000
12000
14000
Graphic Controls
V&P GAGE
CHART NO. MC P15000

SUMMARY CASING AND CEMENTING REPORT

STRING: **INTERMEDIATE** DATE: **11/15/2009**

OPERATOR: NADEL & GUSSMAN HEYCO WELL: **BOLA 7 FEDERAL #4**
CONTRACTOR: PATRIOT RIG: #1
REP: KEITH CANNON

CASING DETAIL
HOLE SIZE: 12 1/4" DEPTH: 3110'

12 1/4" HOLE PIPE SET AT	3110.00
FLOAT SHOE	1.40
	3108.60
1 JTS 9 5/8" 36# J55 STC Csg	37.55
	3071.05
9 5/8" FLOAT INSERT	1.40
	3069.65
53 JTS 9 5/8" 36# J55 STC Csg	3076.50
	-6.85
KB TO GL	18.50

CENTRALIZERS PLACED @ 3071.05, 3032.68, 2994.90, 2957.18, 2882.36,

REMARKS:
TOTAL CASING DELIVERED.... 88 JTS 9 5/8" 36# J55 STC (3305.65')
ALL CASING WAS DRIFTED, CLEANED, & VISUALLY INSPECTED ON LOCATION.
FLOAT SHOE, 1 SHOE JTS, FLOAT INSERT, WERE THREAD LOCKED.
TAGGED BOTTOM NO FILL. CIRCULATED CAPACITY & ANNULAR VOLUME
WOC F/ 4HRS,

EXCESS CASING
CASING NOT USED .... 5 JTS 9 5/8" 36# J55 STC [189.00'].
DISPOSITION .... 5 JTS 36# J55 TRANSFERRED TO NGP YARD (ARTESIA)

CEMENTING DATA
COMPANY: RISING STAR DISTRICT: HOBBS

1ST STAGE:

PREFLUSH: 15 bbls FW SPACER

LEAD: 550 SKS 65:35:4 POZ'C' 5% SALT+1/4#CF+.25%R-38 12.40 LB/SKS, YEILD 2.09, WATER 11.61 GAL/SK

SUMMARY CASING AND CEMENTING REPORT

TAIL: 200 SKS "C"NEAT+.25%R-38 14.8 LB/SKS, YEILD 1.32, WATER 6.34 GAL/SK

NOTE: NO PROBLEMS W/ PIPE OR CMT JOB. PLUG DOWN @ 9:00PM 11/15/09, CIRC 63BBLS (169SKS) CALLED HOBBS BLM NO ANS. L/ MASSAGE ON MAILBOX 575-605-5984. NO WITNESS F/ CMT JOB

DATE : 11/15/2009		WELL :				BOLA 7 FEDERAL #4				
Casing OD	9 5/8	Grade	J-55 / STC	Displacement bbl/ft		0.01268	Burst	3520	Torque	
Casing ID	8.921	Weight	36#	Capacity bbl/ft		0.07730	Collapse	2020	2955-4925	
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 3110
1	1.40	1.40	0.0178	0.0178		0.10822	0.1082		F/S	3108.60
2	37.55	38.95	0.4761	0.4939		2.902615	3.0108		Centrilizers	3071.05
3	1.20	40.15	0.0152	0.5091		0.09276	3.1036		F/C	3069.85
4	37.17	77.32	0.4713	0.9804		2.873241	5.9768		Centrilizers	3032.68
5	37.78	115.10	0.4791	1.4595		2.920394	8.8972		Centrilizers	2994.90
6	37.72	152.82	0.4783	1.9378		2.915756	11.8130		Centrilizers	2957.18
7	36.81	189.63	0.4668	2.4045		2.845413	14.6584			2920.37
8	38.01	227.64	0.4820	2.8865		2.938173	17.5966		Centrilizers	2882.36
9	36.52	264.16	0.4631	3.3495		2.822996	20.4196			2845.84
10	37.59	301.75	0.4766	3.8262		2.905707	23.3253			2808.25
11	38.12	339.87	0.4834	4.3096		2.946676	26.2720			2770.13
12	37.46	377.33	0.4750	4.7845		2.895658	29.1676			2732.67
13	37.19	414.52	0.4716	5.2561		2.874787	32.0424			2695.48
14	36.26	450.78	0.4598	5.7159		2.802898	34.8453			2659.22
15	38.15	488.93	0.4837	6.1996		2.948995	37.7943			2621.07
16	36.00	524.93	0.4565	6.6561		2.7828	40.5771			2585.07
17	37.97	562.90	0.4815	7.1376		2.935081	43.5122			2547.10
18	37.39	600.29	0.4741	7.6117		2.890247	46.4024			2509.71
19	38.25	638.54	0.4850	8.0967		2.956725	49.3591			2471.46
20	38.13	676.67	0.4835	8.5802		2.947449	52.3066			2433.33
21	38.08	714.75	0.4829	9.0630		2.943584	55.2502			2395.25
22	37.22	751.97	0.4719	9.5350		2.877106	58.1273			2358.03
23	38.14	790.11	0.4836	10.0186		2.948222	61.0755			2319.89
24	38.12	828.23	0.4834	10.5020		2.946676	64.0222			2281.77
25	36.97	865.20	0.4688	10.9707		2.857781	66.8800			2244.80
26	37.55	902.75	0.4761	11.4469		2.902615	69.7826			2207.25
27	36.39	939.14	0.4614	11.9083		2.812947	72.5955			2170.86
28	37.54	976.68	0.4760	12.3843		2.901842	75.4974			2133.32
29	37.17	1013.85	0.4713	12.8556		2.873241	78.3706			2096.15
30	38.10	1051.95	0.4831	13.3387		2.94513	81.3157			2058.05
31	37.28	1089.23	0.4727	13.8114		2.881744	84.1975			2020.77
32	37.47	1126.70	0.4751	14.2866		2.896431	87.0939			1983.30
33	37.48	1164.18	0.4752	14.7618		2.897204	89.9911			1945.82
34	38.14	1202.32	0.4836	15.2454		2.948222	92.9393			1907.68
35	36.88	1239.20	0.4676	15.7131		2.850824	95.7902			1870.80
36	37.21	1276.41	0.4718	16.1849		2.876333	98.6665			1833.59
37	37.18	1313.59	0.4714	16.6563		2.874014	101.5405			1796.41
38	38.12	1351.71	0.4834	17.1397		2.946676	104.4872			1758.29
39	37.96	1389.67	0.4813	17.6210		2.934308	107.4215			1720.33
40	38.12	1427.79	0.4834	18.1044		2.946676	110.3682			1682.21
41	37.50	1465.29	0.4755	18.5799		2.89875	113.2669			1644.71
42	37.51	1502.80	0.4756	19.0555		2.899523	116.1664			1607.20
43	38.16	1540.96	0.4839	19.5394		2.949768	119.1162			1569.04
44	37.00	1577.96	0.4692	20.0085		2.8601	121.9763			1532.04
45	37.06	1615.02	0.4699	20.4785		2.864738	124.8410			1494.98
46	36.76	1651.78	0.4661	20.9446		2.841548	127.6826			1458.22

47	37.90	1689.68	0.4806	21.4251		2.92967	130.6123			1420.32
48	37.66	1727.34	0.4775	21.9027		2.911118	133.5234			1382.66
49	37.47	1764.81	0.4751	22.3778		2.896431	136.4198			1345.19
50	37.94	1802.75	0.4811	22.8589		2.932762	139.3526			1307.25
51	37.83	1840.58	0.4797	23.3386		2.924259	142.2768			1269.42
52	37.06	1877.64	0.4699	23.8085		2.864738	145.1416			1232.36
53	36.96	1914.60	0.4687	24.2771		2.857008	147.9986			1195.40
54	37.69	1952.29	0.4779	24.7550		2.913437	150.9120			1157.71
55	37.80	1990.09	0.4793	25.2343		2.92194	153.8340			1119.91
56	37.44	2027.53	0.4747	25.7091		2.894112	156.7281			1082.47
57	37.80	2065.33	0.4793	26.1884		2.92194	159.6500			1044.67
58	38.15	2103.48	0.4837	26.6721		2.948995	162.5990			1006.52
59	37.60	2141.08	0.4768	27.1489		2.90648	165.5055			968.92
60	36.93	2178.01	0.4683	27.6172		2.854689	168.3602			931.99
61	37.84	2215.85	0.4798	28.0970		2.925032	171.2852			894.15
62	37.68	2253.53	0.4778	28.5748		2.912664	174.1979			856.47
63	37.49	2291.02	0.4754	29.0501		2.897977	177.0958			818.98
64	38.15	2329.17	0.4837	29.5339		2.948995	180.0448			780.83
65	37.39	2366.56	0.4741	30.0080		2.890247	182.9351			743.44
66	36.78	2403.34	0.4664	30.4744		2.843094	185.7782			706.66
67	37.03	2440.37	0.4695	30.9439		2.862419	188.6406			669.63
68	36.58	2476.95	0.4638	31.4077		2.827634	191.4682			633.05
69	38.11	2515.06	0.4832	31.8910		2.945903	194.4141			594.94
70	38.77	2553.83	0.4916	32.3826		2.996921	197.4111			556.17
71	37.37	2591.20	0.4739	32.8564		2.888701	200.2998			518.80
72	37.15	2628.35	0.4711	33.3275		2.871695	203.1715			481.65
73	37.30	2665.65	0.4730	33.8004		2.88329	206.0547			444.35
74	37.42	2703.07	0.4745	34.2749		2.892566	208.9473			406.93
75	38.13	2741.20	0.4835	34.7584		2.947449	211.8948			368.80
76	37.29	2778.49	0.4728	35.2313		2.882517	214.7773			331.51
77	37.69	2816.18	0.4779	35.7092		2.913437	217.6907			293.82
78	37.97	2854.15	0.4815	36.1906		2.935081	220.6258			255.85
79	37.83	2891.98	0.4797	36.6703		2.924259	223.5501			218.02
80	36.95	2928.93	0.4685	37.1388		2.856235	226.4063			181.07
81	37.74	2966.67	0.4785	37.6174		2.917302	229.3236			143.33
82	37.95	3004.62	0.4812	38.0986		2.933535	232.2571			105.38
83	36.93	3041.55	0.4683	38.5669		2.854689	235.1118			68.45
84	37.61	3079.16	0.4769	39.0437		2.907253	238.0191			30.84
85	37.49	3116.65	0.4754	39.5191		2.897977	240.9170			-6.65
86	38.04	3154.69	0.4823	40.0015		2.940492	243.8575		OUT	-44.69
87	37.80	3192.49	0.4793	40.4808		2.92194	246.7795		OUT	-82.49
88	37.47	3229.96	0.4751	40.9559		2.896431	249.6759		OUT	-119.96
89	37.53	3267.49	0.4759	41.4318		2.901069	252.5770		OUT	-157.49
90	38.16	3305.65	0.4839	41.9156		2.949768	255.5267		OUT	-195.65
91		3305.65	0.0000	41.9156		0	255.5267			-195.65
92		3305.65	0.0000	41.9156		0	255.5267			-195.65
93		3305.65	0.0000	41.9156		0	255.5267			-195.65
94		3305.65	0.0000	41.9156		0	255.5267			-195.65
95		3305.65	0.0000	41.9156		0	255.5267			-195.65
96		3305.65	0.0000	41.9156		0	255.5267			-195.65
97		3305.65	0.0000	41.9156		0	255.5267			-195.65
98		3305.65	0.0000	41.9156		0	255.5267			-195.65
99		3305.65	0.0000	41.9156		0	255.5267			-195.65

RISING STAR Services
Oilfield Cementing & Acidizing

	Date:	Time:
Truck Called:	11/15/09	1100am
Arrived at job:	11/15/09	211pm
Start Job:	11/15/09	727pm
Finish Job:	11/15/09	901pm
Leave Location:	11/15/09	

Job Log

RISING STAR SERVICES LP.	Customer Name:	Nadel & Gussman Heyco	Ticket Number:	17722	
P.O. BOX 61193	Lease Name:	Bola 7 Fed.			
MIDLAND, TEXAS 79711	Well #:	4	Supervisor:	John Garza	
OFFICE # 432-617-0114	Type of Job:	9 5/8 Intermediate	County:	Lea	
FAX #432-339-0140	Date:	11/15/2009	CUSTOMER REPRESENTATIVE:	Keith Cannon	

Tubing Size:	N/A	Casing size:	9 5/8	Liner size:	N/A		
Tubing weight:	N/A	Casing weight:	36	Top of Liner:	N/A		
Tubing bbl/lnft	N/A	Total Depth:	3110	Bottom of Liner:	N/A		
Retainer depth:	N/A	Total Pipe:	3116.65	Annular Volume:	N/A		
Packer depth:	N/A	Open Hole:	12.25	BHST:	N/A		
Perfs:	N/A	Shoe Joint:	37.55	BHCT:	N/A		
Holes in casing:	N/A	Displacement:	238 bbls	Maximum:	3000	Psi	
		Pre-Flush:	10 bbls				

	Sks.	Cement Additives							
Lead Cement:	550	65/35 C+6%Gel+5%Salt+1/4#CF+.25%R-38							
	Cmt. Wt.	12.40	Yield	2.09	Gal/sk	11.61	Mixing Water:	152.04	:bbls
							Total Ft.³:	1149.50	ft.³
Middle Cement:									
	Cmt. Wt.		Yield		Gal/sk		Mixing Water:		:bbls
							Total Ft.³:		ft.³
Tail Cement:	200	Class C"Neat"+.25%R-38							
	Cmt. Wt.	14.80	Yield	1.32	Gal/sk	6.32	Mixing Water:	30.10	:bbls
							Total Ft.³:	264.00	ft.³
	Cmt. Wt.		Yield		Gal/sk		Mixing Water:		:bbls
							Total Ft.³:		ft.³

Total sks:	750 sks.	Total Bbls. Cmt.:	251.74 :Bbls	Total Water for Job:	
Total Ft.³:	1414 ft.³	Total Mix Water:	182.13 :Bbls	490.00	:Bbls

Acid Systems

Acid System:		Gallons	
Diverter:		Balls	Coarse Rock Salt

Time	Injection Rate: Rate:	Bbls in		Job Pressures Tbg psi.	Csg psi
211pm					
220pm					
225pm					
321pm					
639pm					
727pm	1	2			3900
729pm	5	15			300
734pm	7	225			400
811pm	6	51			400
819pm					
822pm	7	228			350

Job Log Remarks:

Arrive on location
Spot equipment
Rig up iron
Test H2O
Safety meeting
Pressure test lines
Fw spacer
Lead slurry @ 12.4ppg 550sxs.
Tail slurry @ 14.8ppg 200 sxs.
Shut dn & drop plug
Start displacement

SERVICE REPRESENTATIVE:	Signature Please	CUSTOMER REPRESENATIVE:	Signature Please
JOHN GARZA		X	

RISING STAR Oilfield Cementing Services & Acidizing

Ticket Number: **17722**

Lease: **Bola 7 Fed.**

Customer: Nadel & Gussman Heyco

Well: **4**

Date: *11/15/2009*

Job Type: ***9 5/8 Intermediate***

	Injection Rate:		Job Pressures		**Job Log Remarks:**
Time	Rate:	Bbls in	Tbg psi.	Csg psi	
858pm	2.3	10		820	Slow rate
900pm				1400	Bump plug
901pm					Check float (held)
					Rising Star release
					Thank-you John & crew
					Circulated cement 63 bbls. 169 sxs.

Thank you for your business, your patronage is greatly appreciated!!!

SERVICE REPRESENTATIVE:	Signature Please	CUSTOMER REPRESENATIVE:	Signature Please
JOHN GARZA		*X*	