



Jerome P. McHugh Associates
Operating Affiliate: Nassau Resources, Inc.
P O Box 809, Farmington, NM 87499-0809
(505) 326-7793 Fax (505) 327-0859

September 25, 1990

New Mexico Oil Conservation Division
1000 Rio Brazos Rd.
Aztec, NM 87410

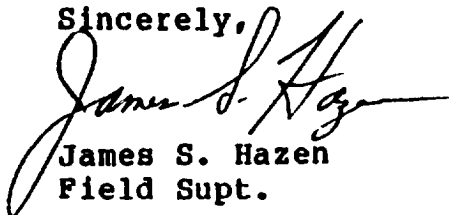
RE: NASSAU RESOURCES, INC.
Carracas Unit 34 B #9
Unit I, Sec. 34, T32N, R4W, NMPM
Rio Arriba County, NM

RECEIVED
NOV 30 1990
OIL CON. DIV.
FST 2

Gentlemen:

I hereby certify that deviation surveys were run on the captioned well as shown on the attached Halliburton Drift Survey.

Sincerely,


James S. Hazen
Field Supt.

cm

Attachments

State of New Mexico)
) ss
County of San Juan)

Subscribed and sworn to before me this 25th day of Sept., 1990.



OFFICIAL SEAL
FRANCES PERRIN
NOTARY PUBLIC - NEW MEXICO
Notary Bond Filed with Secretary of State
My Commission Expires 5-15-93


Notary Public

DRIFT SURVEY

COMPANY NASSAU RESOURCES, INC.

ELL CARPCRS UNIT 34 B NO. 9

MC FRUITLAND COAL
FIELD

JUNTY RIO ARRIBA

300 FSL AND 970 FEL

STATE NM
OTHER SERVICES
SOL-DSN
DIGL

EC. 34	THP 32M	RGE 4M
G.L.	ELEV. 7195	

12 FT. ABOVE PERM. DATUM
3M K.B.
ED FROM KELLY BUSHING

ELEV.:K.B.	7207
D.F.	7208
G.L.	7195

9/20/90

ONE

4899	
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4899	
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1899	4899
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CASTING

CHS INC
19.625

310	3.628.6
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310	875
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015	8.75
015	8.75

Q. 10	Q. 11	Q. 12	Q. 13	Q. 14	Q. 15	Q. 16	Q. 17	Q. 18	Q. 19	Q. 20	Q. 21	Q. 22	Q. 23	Q. 24	Q. 25	Q. 26	Q. 27	Q. 28	Q. 29	Q. 30	Q. 31	Q. 32	Q. 33	Q. 34	Q. 35	Q. 36	Q. 37	Q. 38	Q. 39	Q. 40	Q. 41	Q. 42	Q. 43	Q. 44	Q. 45	Q. 46	Q. 47	Q. 48	Q. 49	Q. 50	Q. 51	Q. 52	Q. 53	Q. 54	Q. 55	Q. 56	Q. 57	Q. 58	Q. 59	Q. 60	Q. 61	Q. 62	Q. 63	Q. 64	Q. 65	Q. 66	Q. 67	Q. 68	Q. 69	Q. 70	Q. 71	Q. 72	Q. 73	Q. 74	Q. 75	Q. 76	Q. 77	Q. 78	Q. 79	Q. 80	Q. 81	Q. 82	Q. 83	Q. 84	Q. 85	Q. 86	Q. 87	Q. 88	Q. 89	Q. 90	Q. 91	Q. 92	Q. 93	Q. 94	Q. 95	Q. 96	Q. 97	Q. 98	Q. 99	Q. 100
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P.	2.3	●	●
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P.	2.0	RE
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p. 2.7 • 6

C	MEMS : M
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1.0	
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16 HOURS

00:30

152

ON	4557	11
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on	720
Ji. KOP	

Fold Here

Service Ticket No.: 500731				API Serial No.:				PGM Version: 2.21					
Change in Mud Type or Additional Samples				RESISTIVITY SCALE CHANGES									
Date/Sample No.		9 /20/90:		/ / :		Type Log	Depth	Scale Up Hole	Scale Down Hole				
Depth-Driller													
Type Fluid													
in Hole													
Dens. : Visc.		:		:									
pH. : Fluid Loss		:		:									
Source of Sample				RESISTIVITY EQUIPMENT DATA									
Rm @ Meas.Temp.		e		e		Run No	Tool Type & No	Pad Type	Tool Pos.	Other			
Rmf @ Meas.Temp.		e		e		ONE	DILT W100737		CENT.				
Rmc @ Meas.Temp.		e		e			SGRD W100809						
Source: Rmf:Rmc		:		:									
Rm @ BHT		1.0 @152		e									
Rmf @ BHT		0.9 @152		e									
Rmc @ BHT		1.2 @152		e									
EQUIPMENT DATA													
GAMMA			ACOUSTIC			DENSITY			NEUTRON				
Run No.		ONE		Run No.		ONE		Run No.		ONE			
Serial No.		W100502		Serial No.				Serial No.		W100722			
Model No.		NGRT		Model No.				Model No.		DSNT-A			
Diameter		3.625		No.of Cent.				Diameter		3.625			
Detector Model No.				Spacing				Log Type		THERNEU			
Type		SCINT						Source Type		AMBE241			
Length		4 "		LSA				Serial No.		DSN-93			
Distance To Source		N/A		FWDA				Strength		19 CI.			
LOGGING DATA													
GENERAL			GAMMA		ACOUSTIC			DENSITY			NEUTRON		
Run		Depth		Speed		Scale		Scale			Scale		
No.		From To		Ft/Min		L R		L R Matrix			L R Matrix		

HALLIBURTON LOGGING SERVICES

Company name: NASSAU RESOURCES, INC.
Well Name: CARRACAS UNIT 34 B NO.9
Well location: RIO ARRIBA NM
Comments:

*** RECORD OF SURVEY ***
Calculated by HELPRO, version 4.05
Radius of Curvature Method

MEAS. DEPTH	DRIFT ANGLE	HOLE T.V.D.	BEARING	COURSE COORDINATES				TOTAL COORDINATES			
				NORTH	SOUTH	EAST	WEST	NORTH	SOUTH	EAST	WEST
310	0.00	310.00	N 24 E	0.0		0.0		0.0		0.0	
350	0.27	350.00	N 24 E	0.1		0.0		0.1		0.0	
400	0.46	400.00	N 79 E	0.2		0.2		0.3		0.3	
450	0.27	450.00	S 25 E		0.1	0.3		0.1		0.5	
500	0.61	500.00	S 11 E		0.4	0.1			0.2	0.7	
550	0.77	549.99	S 42 W		0.6		0.2		0.	0.5	
600	1.67	599.98	S 32 W		0.8		0.6		1.6		0.1
650	2.67	649.94	S 44 W		1.5		1.2		3.1		1.3
700	3.91	699.86	S 46 W		2.0		2.0		5.1		3.3
750	5.63	749.68	S 43 W		3.0		2.9		8.1		6.2
800	6.57	799.40	S 54 W		3.5		4.0		11.6		10.2
850	7.30	849.03	S 54 W		3.6		4.9		15.2		15.1
900	8.38	898.57	S 52 W		4.1		5.4		19.4		20.5
950	10.36	947.90	S 63 W		4.4		6.9		23.7		27.4
1000	12.42	996.91	S 58 W		4.9		8.6		28.6		35.9
1050	13.94	1045.59	S 59 W		6.0		9.7		34.5		45.7
1100	15.05	1094.00	S 59 W		6.4		10.7		41.0		56.4
1150	15.33	1142.25	S 59 W		6.8		11.2		47.7		67.6
1200	16.42	1190.34	S 60 W		6.9		11.8		54.7		79.4
1250	16.99	1238.23	S 62 W		7.0		12.6		61.7		92.0
1300	16.79	1286.08	S 59 W		7.1		12.7		68.8		104.6
1350	18.18	1333.77	S 64 W		7.2		13.2		75.9		117.8
1400	19.05	1381.15	S 65 W		6.9		14.4		82.8		132.2
1450	19.77	1428.31	S 67 W		6.7		15.2		89.5		147.4
1500	20.25	1475.29	S 67 W		6.6		15.8		96.1		163.2
1550	21.10	1522.07	S 68 W		6.7		16.3		102.8		179.6
1600	22.07	1568.56	S 68 W		6.8		17.1		109.6		196.6
1650	22.53	1614.82	S 68 W		7.0		17.6		116.6		214.3
1700	23.53	1660.84	S 69 W		7.1		18.2		123.7		232.5
1750	24.53	1706.50	S 70 W		7.1		19.1		130.8		251.6
1800	25.41	1751.83	S 71 W		7.1		19.9		137.8		271.5
1850	26.53	1796.78	S 72 W		7.0		20.7		144.9		292.2
1900	27.08	1841.40	S 72 W		7.1		21.4		151.9		313.6
1950	27.98	1885.74	S 73 W		7.1		22.0		159.0		335.6
2000	29.07	1929.67	S 73 W		7.1		22.8		166.0		358.5
2050	29.97	1973.18	S 74 W		7.1		23.6		173.1		382.1
2100	30.97	2016.27	S 73 W		7.2		24.3		180.3		406.4
2150	31.81	2058.95	S 74 W		7.4		25.0		187.7		431.4
2200	33.49	2101.05	S 75 W		7.3		26.0		195.0		457.3
2250	33.38	2142.78	S 75 W		7.2		26.6		202.2		483.9
2300	35.06	2184.12	S 76 W		7.1		27.2		209.4		511.1
2350	33.86	2225.35	S 74 W		7.3		27.3		216.7		538.4
2400	33.35	2266.99	S 73 W		7.8		26.6		224.5		565.0
					8.2		25.9		232.6		590.9

2200	33.38	2142.78	S 75 W	7.2	26.6	202.2	483.9
2250	33.38	2142.78	S 75 W	7.2	26.6	202.2	483.9
2300	35.06	2184.12	S 76 W	7.1	27.2	209.4	511.1
2350	33.86	2225.35	S 74 W	7.3	27.3	216.7	538.4
2400	33.35	2266.99	S 73 W	7.8	26.6	224.5	565.0
2450	32.56	2308.95	S 72 W	8.2	25.9	232.6	590.9
2500	31.94	2351.24	S 68 W	9.1	25.1	241.7	616.0
2550	32.39	2393.56	S 79 W	7.5	25.5	249.2	641.5
2600	32.32	2435.80	S 75 W	6.1	26.1	255.2	667.6
2650	32.89	2477.92	S 72 W	7.6	25.8	262.9	693.4
2700	32.69	2519.95	S 72 W	8.4	25.8	271.2	719.2
2750	32.38	2562.10	S 73 W	8.1	25.6	279.3	744.8
2800	32.42	2604.32	S 73 W	7.8	25.6	287.1	770.4
2850	32.67	2646.47	S 73 W	7.7	25.8	294.9	796.2
2900	33.25	2688.42	S 75 W	7.5	26.1	302.4	822.3
2950	33.00	2730.29	S 76 W	6.9	26.4	309.3	848.8
3000	32.29	2772.40	S 77 W	6.2	26.2	315.5	875.0
3050	32.97	2814.51	S 78 W	5.8	26.3	321.3	901.3
3100	33.47	2856.33	S 77 W	6.1	26.7	327.4	928.0
3150	34.01	2897.91	S 78 W	6.0	27.1	333.4	955.2
3200	34.54	2939.23	S 78 W	5.8	27.6	339.2	982.7
3250	34.61	2980.40	S 78 W	5.9	27.7	345.1	1010.5
3300	34.88	3021.48	S 79 W	5.7	27.9	350.8	1038.4
3350	34.52	3062.59	S 79 W	5.5	27.9	356.3	1066.3
3400	34.83	3103.71	S 78 W	5.7	27.9	362.0	1094.2
3450	32.58	3145.30	S 75 W	6.4	27.0	368.4	1121.2
3500	30.74	3187.86	S 74 W	7.0	25.3	375.4	1146.5
3550	32.24	3230.50	S 73 W	7.5	25.0	382.9	1171.5
3600	32.36	3272.76	S 74 W	7.6	25.6	390.5	1197.1
3650	33.21	3314.80	S 75 W	7.3	26.1	397.8	1223.2
3700	33.33	3356.60	S 74 W	7.3	26.4	405.1	1249.6
3750	33.19	3398.41	S 74 W	7.4	26.4	412.5	1276.0
3800	33.35	3440.21	S 76 W	7.1	26.5	419.6	1302.5
3850	34.25	3481.76	S 76 W	6.7	27.0	426.3	1329.5
3900	33.99	3523.16	S 76 W	6.7	27.2	433.0	1356.7
3950	35.39	3564.27	S 74 W	7.4	27.5	440.4	1384.2
4000	35.00	3605.13	S 74 W	7.8	27.7	448.2	1411.9
4050	36.02	3645.83	S 69 W	9.2	27.5	457.4	1439.5
4100	37.69	3685.83	S 69 W	10.8	28.0	468.2	1467.4
4150	39.07	3725.02	S 68 W	11.3	28.9	479.6	1496.4
4200	41.12	3763.27	S 64 W	13.0	29.5	492.5	1525.8
4250	43.32	3800.30	S 71 W	12.7	31.1	505.3	1556.9
4300	44.05	3836.46	S 65 W	12.7	32.1	518.0	1589.0
4350	43.69	3872.50	S 64 W	14.8	31.3	532.8	1620.3
4400	42.54	3909.00	S 82 W	9.9	32.6	542.6	1652.9
4450	42.72	3945.78	S 82 W	4.7	33.5	547.3	1686.4
4500	42.59	3982.55	S 85 W	4.0	33.6	551.3	1720.1
4550	41.92	4019.56	S 67 W	8.2	32.4	559.5	1752.5
4600	41.97	4056.75	S 83 W	8.8	32.1	568.4	1784.6
4650	41.57	4094.05	S 83 W	4.2	33.0	572.5	1817.7
4700	39.60	4132.01	N 89 W	1.6	32.5	574.1	1850.1
4750	39.63	4170.53	S 88 W	0.2	31.9	574.4	1882.0
4800	40.01	4208.92	S 84 W	2.4	31.9	576.8	1913.9
4850	39.90	4247.25	S 85 W	3.1	32.0	579.9	1945.9
4899	40.09	4284.79	S 75 W	5.5	31.0	585.4	1976.9

HORIZONTAL DEPARTURE * 2061.71 FEET AT SOUTH 73 DEG. 30. MIN. WEST (GRID)