



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

August 2, 1990

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

RE: NASSAU RESOURCES, INC.
Carracas Unit 15 A #16
Unit P, Sec. 15, T32N, R5W, NMPM
Rio Arriba County, NM

OK
E
RECEIVED
AUG 6 1990
OIL CON. DIV.
DIST. 3

Gentlemen:

I hereby certify that deviation surveys were run on the captioned well as shown on the attached Smith Datadrill information sheets.

Sincerely,

Murphy Brasuel
Field Foreman

cm

Attachments

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

Subscribed and sworn to before me this 2nd day of July, 1990.



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

Frances Perrin
Notary Public

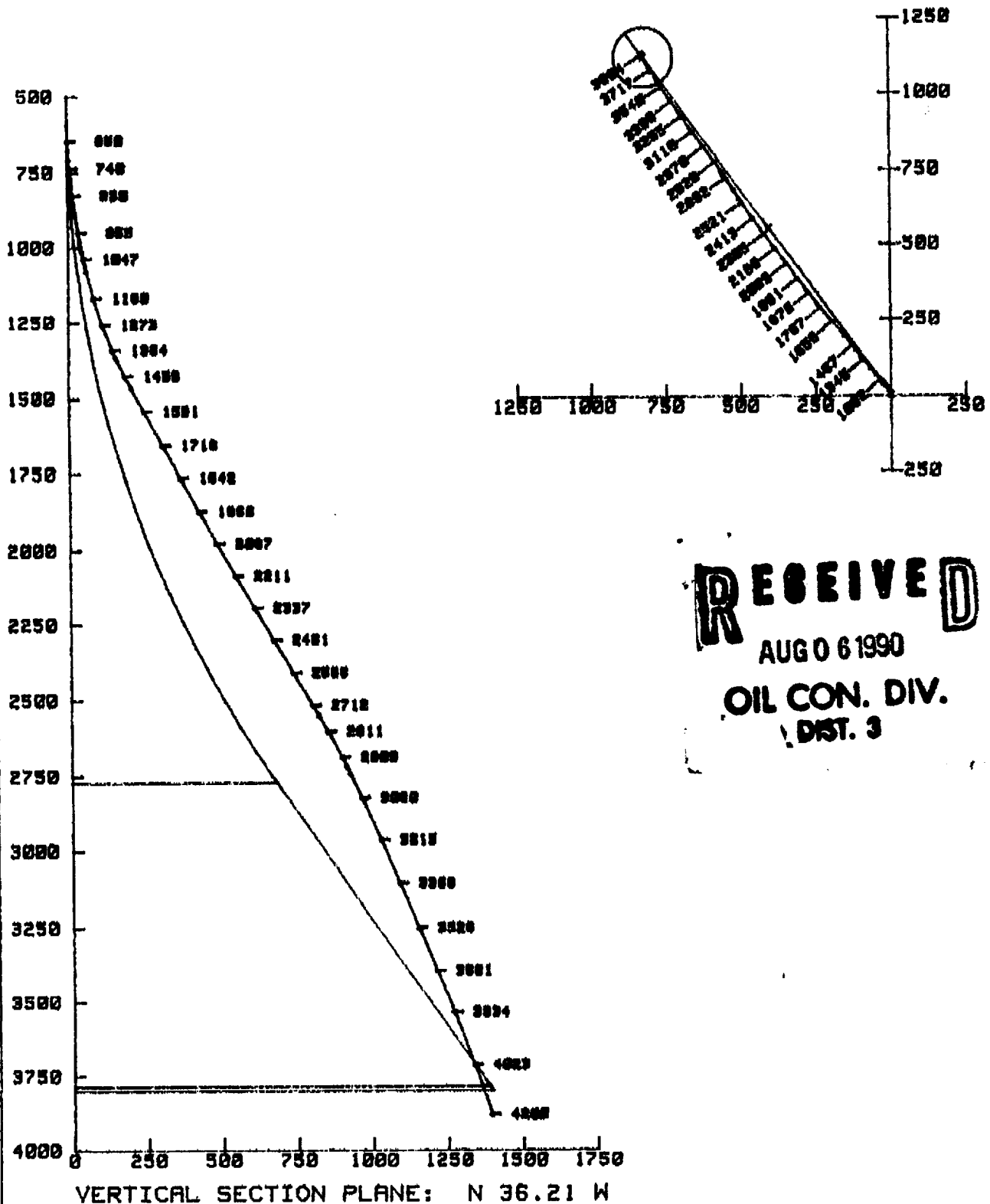
3 JUL 1990 @ 12:52

NASSAU RESOURCES
WELL: 15A-16
SAN JUAN BASIN
RIO ARriba COUNTY, NEW MEXICO



VERTICAL PLANE
SCALE: 250 FEET/DIVISION

HORIZONTAL PLANE
SCALE: 250 FEET/DIVISION



RECEIVED
AUG 06 1990
OIL CON. DIV.
DIST. 3

741333
100-100000
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DATADRIL

NASSAU RESOURCES
 CARRACAS UNIT: 15A #16
 SAN JUAN BASIN
 RIO ARriba COUNTY, NEW MEXICO

File Name: NASS15A155

*** RECORD OF SURVEY ***

Calculated by DATADRIL's CADDs System

Radius of Curvature Method

All Angles are Decimal

Vertical Section Plane: N 36.21 W

MEASURED DEPTH (FT)	INCL ANGLE (DEG)	D R I F T DIRECTION (DEG)	COURSE LENGTH (FT)	TOTAL VERTICAL DEPTH	T O T A L RECTANGULAR COORDINATES (FT)		VERTICAL SECTION (FT)	C L O S U R E DISTANCE DIRECTION (FT) (DEG)		DOGLES SEVERITY (DEG/100')
0.00	0.00	N 0.00 E	0.00	0.00	0.00 N	0.00 E	0.00	0.00 N 0.00 E	0.00	0.00
322.00	0.00	N 0.00 E	322.00	322.00	0.00 N	0.00 E	0.00	0.00 N 0.00 E	0.00	0.00
559.00	.50	N 27.00 E	237.00	559.00	.92 N	.47 E	.47	1.03 N 27.00 E	.21	
590.00	.50	N 20.00 W	31.00	590.00	1.18 N	.49 E	.67	1.28 N 22.30 E	1.29	
650.00	2.00	N 18.00 W	60.00	649.98	2.42 N	.06 E	1.92	2.42 N 1.41 E	2.50	
680.00	3.00	N 18.00 W	30.00	679.95	3.67 N	.34 W	3.16	3.68 N 5.38 W	3.33	
710.00	4.00	N 18.00 W	30.00	709.89	5.41 N	.91 W	4.90	5.48 N 9.56 W	3.33	
740.00	4.75	N 22.00 W	30.00	739.81	7.56 N	1.69 W	7.10	7.75 N 12.63 W	2.70	
770.00	5.25	N 32.00 W	30.00	769.69	9.88 N	2.88 W	9.68	10.30 N 16.24 W	3.34	
800.00	6.00	N 36.00 W	30.00	799.55	12.32 N	4.52 W	12.61	13.13 N 20.16 W	2.82	
830.00	7.00	N 34.00 W	30.00	829.35	15.10 N	6.47 W	16.01	16.43 N 23.19 W	3.42	
861.00	7.75	N 34.00 W	31.00	860.10	18.40 N	8.70 W	19.99	20.35 N 25.29 W	2.42	
893.00	8.25	N 36.00 W	32.00	891.79	22.05 N	11.25 W	24.44	24.75 N 27.03 W	1.79	
955.00	10.25	N 42.00 W	62.00	952.98	29.79 N	17.52 W	34.39	34.56 N 30.46 W	3.58	
986.00	10.75	N 43.00 W	31.00	983.46	33.96 N	21.34 W	40.00	40.10 N 32.14 W	1.72	
1018.00	11.50	N 44.00 W	32.00	1014.86	38.44 N	23.59 W	46.13	46.17 N 33.65 W	2.42	
1047.00	12.25	N 44.00 W	29.00	1043.24	42.73 N	24.73 W	52.04	52.05 N 34.83 W	2.59	
1087.00	13.25	N 41.00 W	40.00	1082.25	49.24 N	35.69 W	60.81	60.81 N 35.94 W	3.00	
1180.00	16.25	N 41.00 W	93.00	1172.17	67.10 N	51.23 W	84.40	84.42 N 37.36 W	3.23	
1273.00	19.50	N 41.00 W	93.00	1260.67	88.64 N	69.95 W	112.85	112.92 N 38.28 W	3.49	
1364.00	24.00	N 39.00 W	91.00	1345.17	114.47 N	91.62 W	146.48	146.62 N 38.67 W	5.01	

DATADRI1L

NASSAU RESOURCES
CARRACAS UNIT: 15A #16

SAN JUAN BASIN
RIO ARRIBA COUNTY, NEW MEXICO

MEASURED DEPTH (FT)	INCL ANGLE (DEG)	D R I F T DIRECTION (DEG)	COURSE LENGTH (FT)	TOTAL VERTICAL DEPTH	T O T A L RECTANGULAR COORDINATES (FT)		VERTICAL SECTION (FT)	C L O S U R E DISTANCE DIRECTION (FT) (DEG)		DOUBLE SEVERITY (DEG/100')
1394.00	25.00	N 38.00 W	30.00	1372.47	124.20 N	99.36 W	158.91	159.06	N 38.66 W	3.61
1458.00	27.50	N 38.00 W	64.00	1429.87	146.51 N	116.79 W	187.20	187.36	N 38.56 W	3.91
1500.00	28.50	N 42.00 W	42.00	1466.95	161.61 N	129.46 W	206.87	207.07	N 38.70 W	5.06
1591.00	28.50	N 38.00 W	91.00	1546.92	194.87 N	157.37 W	250.19	250.47	N 38.92 W	2.10
1718.00	28.50	N 42.00 W	127.00	1658.53	241.28 N	196.31 W	310.65	311.05	N 39.13 W	1.50
1842.00	29.00	N 40.00 W	124.00	1767.25	286.29 N	235.44 W	370.08	370.66	N 39.43 W	.87
1966.00	29.25	N 37.00 W	124.00	1875.57	333.52 N	273.00 W	430.38	431.00	N 39.30 W	1.19
2087.00	29.50	N 37.00 W	121.00	1981.01	380.92 N	308.72 W	489.72	490.31	N 39.02 W	.21
2211.00	30.00	N 36.00 W	124.00	2088.67	430.38 N	345.32 W	551.25	551.79	N 38.74 W	.57
2337.00	30.00	N 37.00 W	126.00	2197.79	481.02 N	382.80 W	614.25	614.75	N 38.51 W	.40
2461.00	30.50	N 36.00 W	124.00	2304.90	531.24 N	419.95 W	676.72	677.18	N 38.33 W	.57
2586.00	30.50	N 36.00 W	125.00	2412.60	582.56 N	457.24 W	740.16	740.57	N 38.13 W	0.00
2712.00	31.25	N 34.00 W	126.00	2520.75	635.52 N	494.33 W	804.80	805.14	N 37.88 W	1.01
2748.00	31.00	N 33.00 W	36.00	2551.57	651.04 N	504.60 W	823.39	823.70	N 37.78 W	1.59
2811.00	29.75	N 32.00 W	63.00	2605.92	677.91 N	521.72 W	855.18	855.42	N 37.58 W	2.14
2909.00	27.50	N 33.00 W	98.00	2691.93	717.50 N	546.94 W	902.02	902.19	N 37.32 W	2.35
2940.00	26.25	N 34.00 W	31.00	2719.58	729.19 N	554.67 W	916.02	916.17	N 37.26 W	4.29
2970.00	25.00	N 34.00 W	30.00	2746.63	739.94 N	561.93 W	928.99	929.13	N 37.21 W	4.17
3060.00	24.50	N 36.00 W	90.00	2828.37	770.81 N	583.54 W	966.65	966.78	N 37.13 W	1.08
3215.00	23.75	N 37.00 W	155.00	2969.83	821.73 N	621.22 W	1030.01	1030.13	N 37.09 W	.55
3368.00	23.50	N 35.00 W	153.00	3110.00	871.33 N	657.26 W	1091.32	1091.43	N 37.03 W	.55
3526.00	23.00	N 34.00 W	158.00	3255.17	922.73 N	692.59 W	1153.66	1153.74	N 36.89 W	.40
3681.00	22.50	N 38.00 W	155.00	3398.11	971.22 N	727.81 W	1213.58	1213.66	N 36.85 W	1.05
3834.00	21.25	N 32.00 W	153.00	3540.09	1017.89 N	760.49 W	1270.55	1270.61	N 36.76 W	1.67
4023.00	20.00	N 32.00 W	189.00	3716.98	1074.35 N	795.77 W	1336.94	1336.96	N 36.53 W	.66

TO FOLLOWING SURVEY STATION IS PROJECTED TO T.D.

4200.00	18.75	N 32.00 W	177.00	3883.95	1124.14 N	826.89 W	1395.50	1395.51	N 36.34 W	.71
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BOTTOM HOLE CLOSURE: 1395.51 Feet at N 36.34 Degrees W