

Well Name: VERNENA BUNKER #1
Company : DOWNING-NELSON OIL COMPANY
Location - Sec: 31 **Tw:** 13S **Rge:** 21W
County: TREGO **State:** KS
Date: 11/22/95

TRILOBITE TESTING L.L.C.

OPERATOR : Downing-Nelson Oil Co. DATE 11-22-95
 WELL NAME: Vernena Bunker #1 KB 2319.00 ft TICKET NO: 8658 DST #1
 LOCATION : 31-13s-21w, Trego Cty KS GR 2311.00 ft FORMATION: Sand
 INTERVAL : 4075.00 To 4125.00 ft TD 4125.00 ft TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 45 Rec.	24174	24174	2342			PF Fr. 1217 to 1302 hr
SI 45 Range(Psi)	3050.0	3050.0	4995.0	0.0	0.0	IS Fr. 1302 to 1347 hr
SF 45 Clock(hrs)	AK-1	AK-1	Alpin			SF Fr. 1347 to 1432 hr
FS 45 Depth(ft)	4120.0	4120.0	4078.0	0.0	0.0	FS Fr. 1432 to 1517 hr

	Field	1	2	3	4	
A. Init Hydro	2089.0	2081.0	2065.0	0.0	0.0	T STARTED 1115 hr
B. First Flow	89.0	74.0	31.0	0.0	0.0	T ON BOTM 1215 hr
B1. Final Flow	142.0	130.0	133.0	0.0	0.0	T OPEN 1217 hr
C. In Shut-in	1039.0	1017.0	1026.0	0.0	0.0	T PULLED 1517 hr
D. Init Flow	194.0	183.0	136.0	0.0	0.0	T OUT 1647 hr
E. Final Flow	225.0	216.0	217.0	0.0	0.0	
F. Fl Shut-in	971.0	961.0	977.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	2073.0	2058.0	2033.0	0.0	0.0	Tool Wt. 1800.00 lbs
Inside/Outside	O	O	I			Wt Set On Packer 20000.00 lbs
						Wt Pulled Loose 55000.00 lbs
						Initial Str Wt 44000.00 lbs
						Unseated Str Wt 47000.00 lbs
						Bot Choke 0.75 in
						Hole Size 7.88 in
						D Col. ID 2.25 in
						D. Pipe ID 3.80 in
						D.C. Length 30.00 ft
						D.P. Length 4038.00 ft

RECOVERY

Tot Fluid 450.00 ft of 30.00 ft in DC and 420.00 ft in DP
 300.00 ft of Watery mud
 150.00 ft of Muddy water

SALINITY 0.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

Initial Blow -
 .5" blow building to bottom of bucket
 in 23 minutes

Initial Shutin -
 No blow on shutin

Final Blow -
 Very weak surface blow building to
 bottom of bucket in 33 min

Final Shutin -
 No blow

SAMPLES: none taken
 SENT TO:

MUD DATA-----

Mud Type	Chemical
Weight	9.40 lb/cf
Vis.	47.00 S/L
W.L.	8.80 in3
F.C.	0.00 in
Mud Drop N	
Amt. of fill	0.00 ft
Btm. H. Temp.	124.00 F
Hole Condition	good
% Porosity	0.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00
Cushion Type	
Reversed Out N	
Tool Chased N	
Tester	Paul Simpson
Co. Rep.	Ron N. Al D.
Contr.	Discovery
Rig #	1
Unit #	
Pump T.	

Test Successful: Y

TEST HISTORY

8658 Vernena Bunker #1 Downing Nelson Oil. DST #1

Flag Points

t (Min.) P (PSig)

A:	0.00	2065.20
B:	0.00	30.63
C:	45.00	133.18
D:	46.00	1025.67
E:	0.00	126.47
F:	42.00	216.69
G:	46.00	976.58
Q:	0.00	2033.06

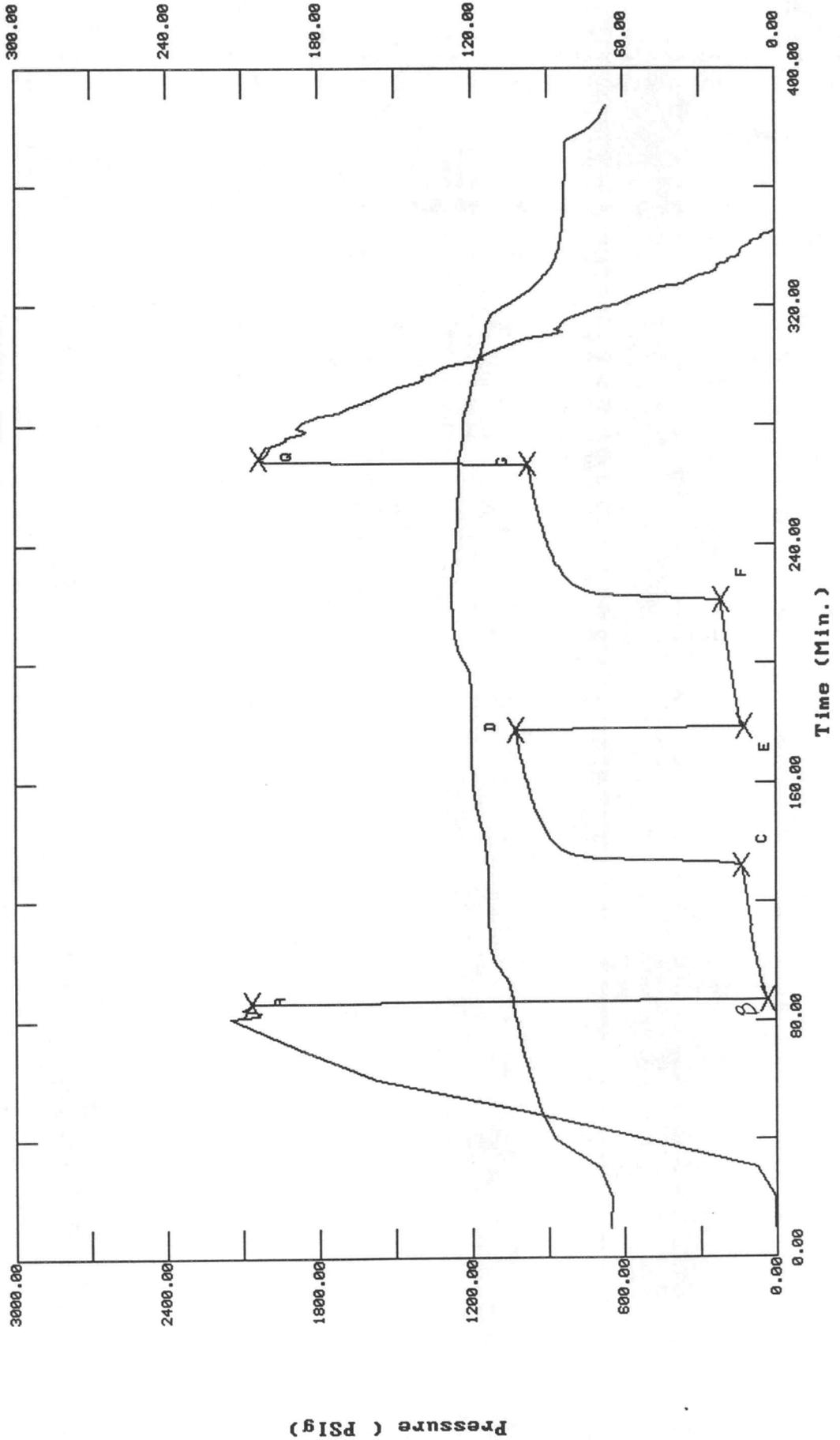
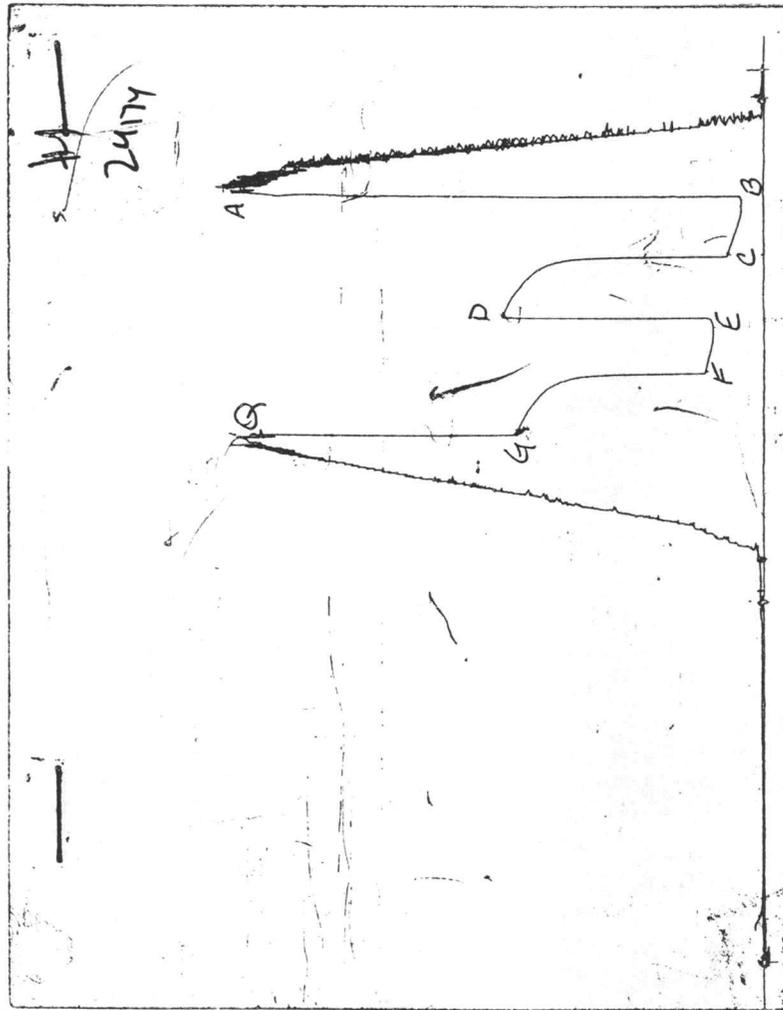


CHART PAGE



This is an actual photograph of recorder chart

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 8658 Vernena Bunker #1 Downing Nelson Oil. DST #1

DATE: 11/22/95 TIME: 10:50:08

	Time	Pressure PSI _g	delta P PSI _g	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
***** Initial Hydro.	86.00	2065.2	0.0	103.76		
***** Start Flow 1	0.00	30.6	0.0	103.82		
	1.00	38.2	7.6	103.95		
	2.00	39.5	8.9	104.15		
	3.00	43.4	12.8	104.40		
	4.00	47.3	16.7	104.69		
	5.00	51.5	20.9	105.14		
	6.00	56.3	25.7	105.72		
	7.00	60.7	30.0	106.37		
	8.00	65.6	35.0	107.11		
	9.00	66.0	35.3	107.94		
	10.00	65.5	34.9	108.79		
	11.00	68.8	38.2	109.58		
	12.00	73.5	42.9	110.27		
	13.00	77.3	46.7	110.85		
	14.00	78.5	47.9	111.34		
	15.00	81.2	50.6	111.72		
	16.00	84.3	53.6	112.04		
	17.00	86.1	55.5	112.29		
	18.00	88.1	57.5	112.48		
	19.00	90.3	59.7	112.64		
	20.00	91.9	61.3	112.74		
	21.00	93.7	63.1	112.83		
	22.00	95.4	64.8	112.91		
	23.00	97.5	66.9	112.96		
	24.00	99.5	68.9	113.00		
	25.00	95.3	64.7	113.02		
	26.00	97.2	66.6	113.04		
	27.00	99.0	68.4	113.04		
	28.00	101.0	70.4	113.05		
	29.00	103.3	72.7	113.05		
	30.00	105.2	74.5	113.06		
	31.00	107.1	76.5	113.06		
	32.00	108.9	78.3	113.07		
	33.00	110.8	80.2	113.08		
	34.00	112.6	82.0	113.09		
	35.00	114.3	83.7	113.11		
	36.00	116.5	85.9	113.14		
	37.00	118.5	87.9	113.16		
	38.00	120.3	89.6	113.20		
	39.00	122.1	91.5	113.24		
	40.00	124.2	93.6	113.28		
	41.00	126.0	95.3	113.33		
	42.00	127.6	96.9	113.38		
	43.00	129.7	99.0	113.44		
	44.00	131.3	100.7	113.50		
***** End Flow 1	45.00	133.2	102.6	113.57		
***** Start Shutin 1	0.00	133.2	0.0	113.57	0.0000	0.018
	1.00	254.0	120.8	113.64	46.0000	0.064
	2.00	708.6	575.4	113.74	23.5000	0.502
	3.00	778.1	644.9	113.85	16.0000	0.605

 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 8658 Vernena Bunker #1 Downing Nelson Oil. DST #1

DATE: 11/22/95 TIME: 10:50:08

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
4.00	811.2	678.1	113.99	12.2500	0.658
5.00	833.1	699.9	114.14	10.0000	0.694
6.00	849.8	716.6	114.29	8.5000	0.722
7.00	863.2	730.0	114.44	7.4286	0.745
8.00	874.6	741.4	114.58	6.6250	0.765
9.00	884.4	751.2	114.70	6.0000	0.782
10.00	892.9	759.7	114.84	5.5000	0.797
11.00	900.5	767.3	115.05	5.0909	0.811
12.00	906.6	773.4	115.37	4.7500	0.822
13.00	912.8	779.6	115.74	4.4615	0.833
14.00	919.8	786.6	116.13	4.2143	0.846
15.00	925.5	792.4	116.49	4.0000	0.857
16.00	931.2	798.0	116.83	3.8125	0.867
17.00	936.3	803.1	117.14	3.6471	0.877
18.00	941.2	808.0	117.43	3.5000	0.886
19.00	945.8	812.6	117.68	3.3684	0.894
20.00	950.1	817.0	117.92	3.2500	0.903
21.00	954.3	821.1	118.15	3.1429	0.911
22.00	958.4	825.2	118.36	3.0455	0.918
23.00	962.2	829.0	118.56	2.9565	0.926
24.00	966.1	832.9	118.73	2.8750	0.933
25.00	969.7	836.5	118.90	2.8000	0.940
26.00	973.1	839.9	119.03	2.7308	0.947
27.00	976.6	843.4	119.14	2.6667	0.954
28.00	979.8	846.7	119.25	2.6071	0.960
29.00	983.0	849.9	119.34	2.5517	0.966
30.00	986.1	853.0	119.43	2.5000	0.972
31.00	989.2	856.0	119.52	2.4516	0.978
32.00	992.0	858.8	119.58	2.4062	0.984
33.00	994.8	861.6	119.65	2.3636	0.990
34.00	997.6	864.4	119.71	2.3235	0.995
35.00	1000.2	867.0	119.74	2.2857	1.000
36.00	1002.8	869.6	119.79	2.2500	1.006
37.00	1005.3	872.1	119.81	2.2162	1.011
38.00	1007.8	874.6	119.85	2.1842	1.016
39.00	1010.2	877.0	119.87	2.1538	1.021
40.00	1012.6	879.4	119.89	2.1250	1.025
41.00	1014.9	881.7	119.91	2.0976	1.030
42.00	1017.2	884.0	119.93	2.0714	1.035
43.00	1019.3	886.1	119.95	2.0465	1.039
44.00	1021.5	888.3	119.96	2.0227	1.043
45.00	1023.6	890.4	119.98	2.0000	1.048
46.00	1025.7	892.5	120.00	1.9783	1.052
***** End Shut-in 1					
***** Start Flow 2	0.00	126.5	0.0	119.98	
	1.00	138.9	12.4	119.97	
	2.00	141.3	14.9	119.97	
	3.00	143.6	17.1	119.97	
	4.00	145.6	19.1	119.97	
	5.00	147.8	21.3	119.96	
	6.00	149.6	23.2	119.98	
	7.00	151.6	25.1	119.98	

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 8658 Vernena Bunker #1 Downing Nelson Oil. DST #1

DATE: 11/22/95 TIME: 10:50:08

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
	8.00	153.7	27.2	120.01		
	9.00	155.8	29.3	120.02		
	10.00	157.4	31.0	120.04		
	11.00	159.5	33.1	120.05		
	12.00	161.6	35.1	120.07		
	13.00	163.7	37.2	120.09		
	14.00	165.7	39.3	120.15		
	15.00	167.8	41.3	120.24		
	16.00	170.4	43.9	120.35		
	17.00	172.3	45.8	120.45		
	18.00	174.3	47.8	120.56		
	19.00	176.0	49.5	120.86		
	20.00	177.4	50.9	121.46		
	21.00	179.2	52.7	122.18		
	22.00	180.9	54.5	122.93		
	23.00	183.1	56.7	123.62		
	24.00	185.0	58.5	124.23		
	25.00	186.8	60.3	124.74		
	26.00	188.6	62.1	125.18		
	27.00	190.4	64.0	125.55		
	28.00	192.2	65.7	125.87		
	29.00	193.8	67.3	126.13		
	30.00	195.6	69.2	126.35		
	31.00	197.6	71.1	126.54		
	32.00	199.4	72.9	126.71		
	33.00	201.2	74.7	126.85		
	34.00	202.8	76.4	126.97		
	35.00	204.6	78.1	127.09		
	36.00	206.3	79.8	127.18		
	37.00	208.0	81.5	127.26		
	38.00	209.8	83.3	127.32		
	39.00	211.8	85.4	127.39		
	40.00	213.4	86.9	127.45		
	41.00	215.1	88.6	127.50		
***** End Flow 2	42.00	216.7	90.2	127.55		
***** Start Shutin 2	0.00	216.7	0.0	127.55	0.0000	0.047
	1.00	470.8	254.1	127.61	88.0000	0.222
	2.00	696.8	480.2	127.67	44.5000	0.486
	3.00	748.3	531.6	127.69	30.0000	0.560
	4.00	775.0	558.3	127.69	22.7500	0.601
	5.00	793.7	577.0	127.64	18.4000	0.630
	6.00	808.1	591.4	127.56	15.5000	0.653
	7.00	820.1	603.4	127.46	13.4286	0.673
	8.00	830.0	613.3	127.34	11.8750	0.689
	9.00	838.5	621.8	127.22	10.6667	0.703
	10.00	846.4	629.7	127.09	9.7000	0.716
	11.00	853.4	636.7	126.98	8.9091	0.728
	12.00	860.2	643.5	126.85	8.2500	0.740
	13.00	866.3	649.6	126.74	7.6923	0.750
	14.00	872.1	655.4	126.61	7.2143	0.761
	15.00	877.5	660.8	126.50	6.8000	0.770

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

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DATE: 11/22/95 TIME: 10:50:08

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶	
16.00	883.4	666.7	126.39	6.4375	0.780	
17.00	888.1	671.4	126.29	6.1176	0.789	
18.00	892.6	676.0	126.19	5.8333	0.797	
19.00	896.4	679.7	126.10	5.5789	0.804	
20.00	900.5	683.8	126.01	5.3500	0.811	
21.00	904.6	688.0	125.92	5.1429	0.818	
22.00	908.6	691.9	125.84	4.9545	0.826	
23.00	912.5	695.8	125.75	4.7826	0.833	
24.00	916.2	699.5	125.67	4.6250	0.839	
25.00	919.7	703.0	125.60	4.4800	0.846	
26.00	923.2	706.5	125.52	4.3462	0.852	
27.00	926.6	709.9	125.45	4.2222	0.859	
28.00	929.7	713.1	125.39	4.1071	0.864	
29.00	932.9	716.2	125.33	4.0000	0.870	
30.00	936.0	719.3	125.27	3.9000	0.876	
31.00	939.1	722.4	125.22	3.8065	0.882	
32.00	941.8	725.1	125.16	3.7188	0.887	
33.00	944.8	728.1	125.11	3.6364	0.893	
34.00	947.5	730.8	125.06	3.5588	0.898	
35.00	950.4	733.7	125.01	3.4857	0.903	
36.00	953.0	736.3	124.96	3.4167	0.908	
37.00	955.6	738.9	124.92	3.3514	0.913	
38.00	958.2	741.5	124.87	3.2895	0.918	
39.00	960.6	743.9	124.82	3.2308	0.923	
40.00	963.0	746.3	124.79	3.1750	0.927	
41.00	965.3	748.6	124.75	3.1220	0.932	
42.00	967.7	751.0	124.71	3.0714	0.936	
43.00	969.9	753.3	124.67	3.0233	0.941	
44.00	972.1	755.4	124.63	2.9773	0.945	
45.00	974.3	757.6	124.61	2.9333	0.949	
***** End Shut-in 2	46.00	976.6	759.9	124.56	2.8913	0.954
***** Final Hydro.	269.00	2033.1	0.0	124.54		

*** TOOL DIAGRAM *** CONVENTIONAL

WELL NAME: Vernena Bunker #1

LOCATION : 31-13s-21w, Trego Cty KS

TICKET No. 8658 D.S.T. No. 1 DATE 11-22-95

TOTAL TOOL TO BOTTOM OF TOP PACKERS 20

INTERVAL TOOL

BOTTOM PACKERS AND ANCHOR 19

TOTAL TOOL 39

DRILL COLLAR ANCHOR IN INTERVAL

C. ANCHOR STANDS Single Total

P. ANCHOR STANDS Single 1 Total 31

TOTAL ASSEMBLY 70

C. ABOVE TOOLS STANDS Single 1 Total 30

P. ABOVE TOOLS STANDS 66 Single Total 4038

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 4138

TOTAL DEPTH 4125

TOTAL DRILL PIPE ABOVE K.B. 13

REMARKS:

P.O. SUB	
C.O. SUB changeover sub	4055
S.I. TOOL Shutin tool	4061
HMV Hydraulic tool	4066
JARS n/a	
SAFETY JOINT n/a	
PACKER Top Packer	4070
PACKER Bottom Packer	4075
DEPTH 4075	
STUBB 1'	4076
ANCHOR	
2' perf	4078
Alpine recorder	4078
1 Joint of drill pipe & subs to	4112
T.C. DEPTH	
5' perf	4117
5' perf	4122
BULLNOSE 3' bull plug	
T.D.	4125