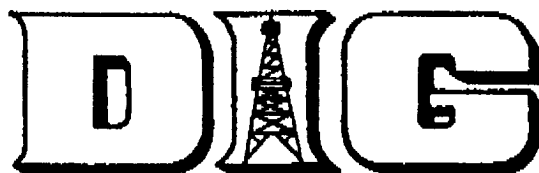


Copies To PY _____

RP _____

LB _____

DB _____



4/23/90

S✓ MW _____
OCDSUB-SURFACE
DIRECTIONAL
SURVEY
REPORT

RECEIVED

APR 26 '90

ARTESIA, OFFICE

STEVENS OPERATING CORPORATION

McBRIDE STATE COM WELL NO. 2

CHAVES COUNTY, NEW MEXICO

STATE AND COUNTY

Cs6 6370
SN 6308
Tbg 6352
Survey 6374
T.D. 6377

} Per DIG

Survey indicates BHL is S44°W AND
22 ft from wellhead (assume).

STEVENS OPERATING CORP.

WELL # :
MCBRIDE STATE COM WELL NO. 2

LOCATION :
CHAVES COUNTY, NEW MEXICO

DATE :
4-21-90

JOB TYPE :
GYROSCOPIC MULTISHOT

JOB # :
09-2950

SURVEYOR :
LARRY MASSEY

DEPTHS :
0' - 6374'

DECL. :
10 DEGREES EAST

ELEV. :
D'

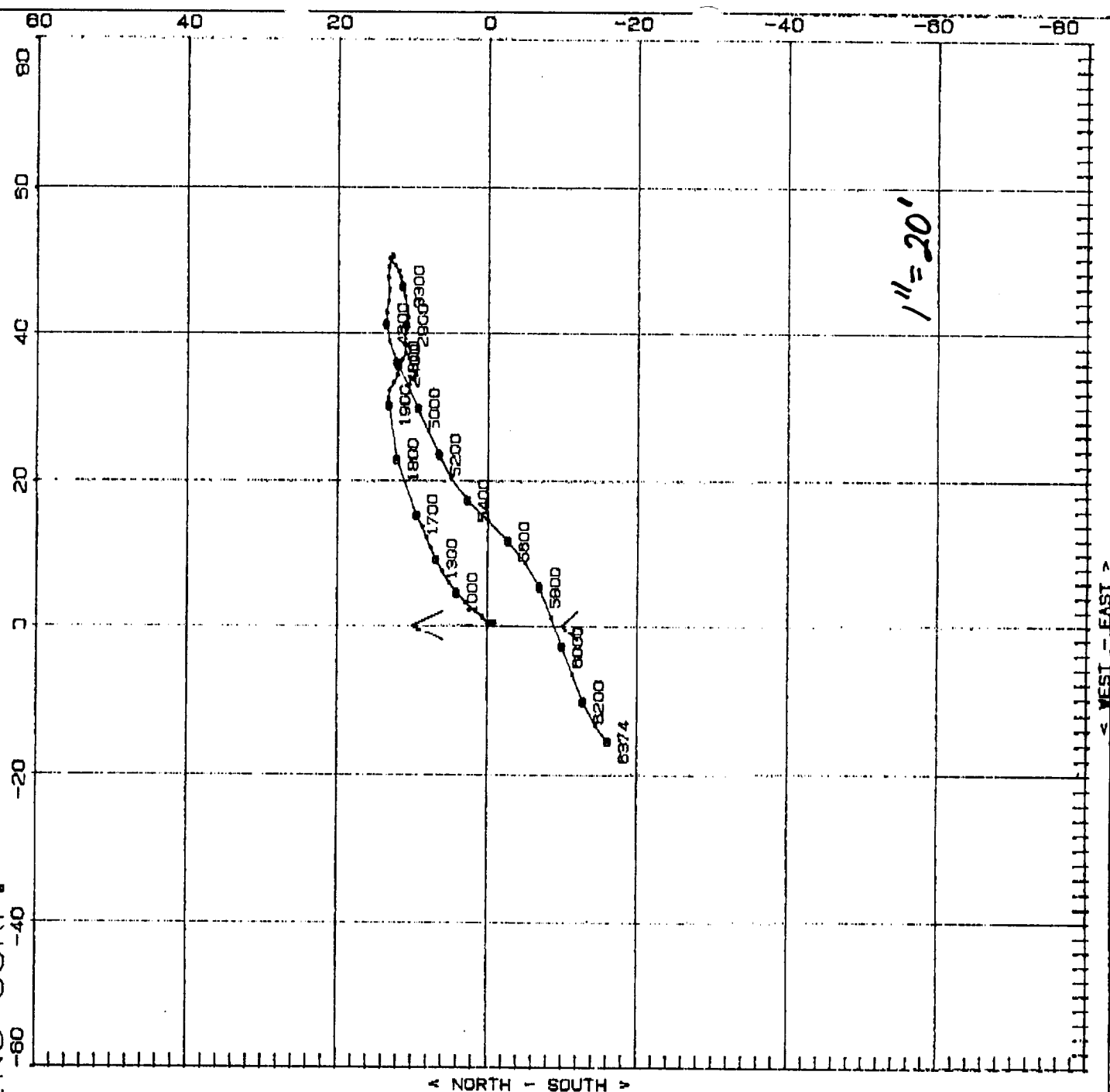
FILE # :
WT-SS19

FINAL STATION DATA:

MD. 6374.00
TVD. 6374.71
N/S -16.10
E/W -15.57

CLOSURE DISTANCE
22.40 FEET
CLOSURE DIRECTION
S 44.04 W

1 IN. = 20 FT.



CUSTOMER : STEVENS OPERATING CORP.

WELL # : McBRIDE STATE COM WELL NO. 2

LOCATION : CHAVES COUNTY, NEW MEXICO

DATE : 4-21-90

JOB TYPE : CYROSCOPIC MULTISHOT

J-2 # : GS-2350

SURVEYOR : LARRY MASSEY

DEPTHS : 0'-6374'

DECL. : 10 DEGREES EAST

ELEV. : 0'

FILE # : MT-SSIS

DIGIS

METHOD : RADIUS OF CURVATURE

SECTION : 0

FINAL STATION DATA:

THIS SURVEY IS CORRECT TO THE
BEST OF MY KNOWLEDGE AND IS
SUPPORTED BY ACTUAL FIELD DATA.
Larry Massey
DIG REPRESENTATIVE

MEASURED #	INCL.	HOLE	COURSE	VERTICAL	RECTANGULAR	CLDS	UNK	DGC-LEG
DEPTH #	ANGLE	DIRECTION	LENGTH	DEPTH	COORDINATES	DISTANCE	DIRECTION	SEVERITY
FEET	DEGS.	DEGS.	FEET	FEET	N/S	FEET	DEGS.	DEGS/100FT

6374.00 # 2.30 # S 49.00 W # 74.00 # 6371.71 # 16.10 S 15.57 W # 22.40' S 44.04 W # .62

5155-1A

00/00/00

MEASURED	INCL	HOLE	COURSE	VERTICAL	RECTANGULAR	C L O S U R E	DIG-LEG
DEPTH	ANGLE	DIRECTION	LENGTH	DEPTH	CURVATURES	DISTANCE	DIRECTION
FEET	DEGS	DEGS	FEET	FEET	H/S	FEET	DEGS
0.00	0.00	N 83.00 E	0.00	0.00	0.00	0.00	0.00
100.00	.20	N 83.00 E	100.00	100.00	.17	N 83.00 E	.20
200.00	.30	S 25.00 E	100.00	200.00	.56	S 71.50 E	.30
300.00	.20	S 01.00 W	100.00	300.00	.86	S 45.96 E	.15
400.00	.20	S 51.00 W	100.00	400.00	1.02	S 27.50 E	.17
500.00	.40	N 10.00 E	100.00	500.00	.70	S 10.04 E	.57
600.00	.70	N 49.00 E	100.00	600.00	.12	N 78.36 E	.46
700.00	.40	N 42.00 E	100.00	700.00	.79	N 50.04 E	.31
800.00	1.00	N 40.00 E	100.00	800.00	2.72	N 50.39 E	.60
900.00	1.00	N 42.00 E	100.00	900.00	3.03	N 46.70 E	.03
1000.00	1.00	N 54.00 E	100.00	1000.00	4.20	N 47.07 E	.21
1100.00	1.00	N 55.00 E	100.00	1100.00	5.21	N 48.70 E	.02
1200.00	1.10	N 65.00 E	100.00	1200.00	6.13	N 50.82 E	.21
1300.00	1.10	N 66.00 E	100.00	1300.00	6.92	N 53.23 E	.02
1400.00	1.00	N 64.00 E	100.00	1400.00	7.70	N 54.84 E	.11
1500.00	.80	N 75.00 E	100.00	1500.00	8.25	N 56.36 E	.26
1600.00	1.00	N 65.00 E	100.00	1600.00	8.78	N 57.65 E	.25
1700.00	1.00	N 62.00 E	100.00	1700.00	9.56	N 58.22 E	.05
1800.00	0.00	N 79.00 E	100.00	1800.00	12.17	N 61.90 E	7.05
1900.00	.70	N 84.00 E	100.00	1900.00	13.29	N 66.31 E	7.30
2000.00	.40	N 84.00 E	100.00	2000.00	13.39	N 66.80 E	.30
2100.00	.90	S 73.00 E	100.00	2100.00	13.28	N 67.69 E	.55
2200.00	.60	S 40.00 E	100.00	2200.00	12.64	N 69.32 E	.44
2300.00	.70	S 83.00 E	100.00	2300.00	12.18	N 70.56 E	.40
2400.00	.70	S 79.00 E	100.00	2400.00	11.99	N 71.45 E	.05

STEVENS OPERATING CORP.

McKINDE STATE OIL WELL NO. 2

WT-SS1S

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MEASURED	INCL. ANGLE	HOLE DIRECTION	COURSE	LENGTH	VERTICAL	TRUE	CURD IN A T E S	C L O S U R E	DISTANCE	DIRECTION	SEVERITY
FEET	DEGS.	DEGS.	FEET	FEET	FEET	FEET	N/S	FEET	FEET	DEGS.	DEGS./100FT
2500.00	.50	S 44.00 E	100.00	2499.08	11.50 N	36.62 E	38.39' N 72.57 E	.41			
2600.00	.50	S 85.00 E	100.00	2599.07	11.13 N	37.40 E	38.02' N 73.43 E	.35			
2700.00	.80	N 84.00 E	100.00	2699.07	11.14 N	38.53 E	40.11' N 73.88 E	.32			
2800.00	.80	N 89.00 E	100.00	2799.06	11.22 N	39.92 E	41.47' N 74.30 E	.07			
2900.00	.60	S 64.00 E	100.00	2899.05	10.96 N	41.10 E	42.54' N 75.07 E	.38			
3000.00	.70	N 86.00 E	100.00	2999.04	10.75 N	42.20 E	45.55' N 75.71 E	.35			
3100.00	.80	N 82.00 E	100.00	3099.03	11.86 N	43.51 E	44.85' N 75.95 E	.11			
3200.00	.80	N 73.00 E	100.00	3199.02	11.19 N	44.87 E	46.24' N 76.00 E	.13			
3300.00	.80	N 84.00 E	100.00	3299.01	11.45 N	45.23 E	47.63' N 76.07 E	.15			
3400.00	.70	N 67.00 E	100.00	3399.00	11.79 N	47.50 E	48.94' N 76.06 E	.24			
3500.00	.30	N 76.00 E	100.00	3499.00	12.07 N	48.32 E	49.81' N 75.98 E	.41			
3600.00	.70	N 38.00 E	100.00	3599.00	12.53 N	49.04 E	51.62' N 75.66 E	.50			
3700.00	.70	N 68.00 E	100.00	3698.99	13.25 N	50.01 E	51.73' N 75.15 E	.36			
3800.00	.29	S 07.00 W	100.00	3798.99	12.85 N	50.52 E	52.13' N 75.71 E	.82			
3900.00	.30	N 41.00 W	100.00	3898.98	12.75 N	50.19 E	51.79' N 75.73 E	.46			
4000.00	.30	N 64.00 W	100.00	3998.98	13.03 N	49.78 E	51.47' N 75.28 E	.12			
4100.00	.80	N 80.00 W	100.00	4098.98	13.30 N	48.87 E	51.67' N 74.69 E	.52			
4200.00	.90	S 85.00 W	100.00	4198.97	13.44 N	47.39 E	48.26' N 74.17 E	.24			
4300.00	.90	S 85.00 W	100.00	4298.96	13.30 N	45.83 E	47.72' N 73.81 E	0.00			
4400.00	.90	N 78.00 W	100.00	4398.94	13.40 N	44.26 E	46.25' N 73.16 E	.27			
4500.00	.80	N 84.00 W	100.00	4498.93	13.63 N	42.80 E	44.92' N 72.34 E	.13			
4600.00	1.00	S 85.00 W	100.00	4598.92	13.64 N	41.27 E	45.43' N 71.69 E	.26			
4700.00	1.50	S 75.00 W	100.00	4698.90	13.27 N	39.09 E	41.28' N 71.25 E	.54			
4800.00	2.00	S 65.00 W	100.00	4798.85	12.22 N	36.22 E	38.23' N 71.35 E	.58			
4900.00	2.00	S 65.00 W	100.00	4898.79	10.75 N	33.06 E	34.76' N 71.99 E	0.00			

STEVENS OPERATING CORP.

McKIRDE STATE CUM WELL NO. 2

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MEASURED	INCL.	HOLE	COURSE	VERTICAL	TRUE	N/S	FEET	E/W	DISTANCE	DIRECTION	SEVERITY
DEPTH	ANGLE	DIRECTION	LENGTH	DEPTH	FEET	FEET	FEET	FEET	FEET	FEET	FEET
FEET	DEGS.	DEGS.	FEET	FEET	FEET	FEET	FEET	FEET	FEET	FEET	FEET
5000.00	2.00	S 68.00 W	100.00	4998.73		9.36 N	29.86 E		31.29' N	72.60 E	.10
5100.00	2.00	S 66.00 W	100.00	5098.67		7.99 N	26.64 E		27.82' N	73.30 E	.07
5200.00	2.00	S 64.00 W	100.00	5198.60		6.52 N	23.48 E		24.37' N	74.49 E	.07
5300.00	2.00	S 62.00 W	100.00	5298.54		4.93 N	20.37 E		20.96' N	76.39 E	.07
5400.00	2.20	S 45.00 W	100.00	5398.48		2.76 N	17.44 E		17.65' N	81.00 E	.62
5500.00	2.30	S 44.00 W	100.00	5498.40		.04 S	14.69 E		14.69' S	89.85 E	.11
5600.00	2.20	S 51.00 W	100.00	5598.32		2.69 S	11.79 E		12.10' S	77.15 E	.25
5700.00	2.10	S 54.00 W	100.00	5698.25		4.97 S	8.82 E		10.12' S	60.50 E	.15
5800.00	2.50	S 60.00 W	100.00	5798.17		6.91 S	5.32 E		8.72' S	37.56 E	.69
5900.00	2.60	S 71.00 W	100.00	5898.07		8.47 S	1.15 E		8.55' S	07.72 E	.17
6000.00	2.40	S 70.00 W	100.00	5997.98		9.93 S	2.96 W		10.36' S	16.62 W	.20
6100.00	2.30	S 69.00 W	100.00	6097.89		11.36 S	6.80 W		13.24' S	30.91 W	.11
6200.00	2.10	S 68.00 W	100.00	6197.82		12.77 S	10.30 W		16.45' S	39.09 W	.20
6300.00	1.90	S 55.00 W	100.00	6297.76		14.43 S	13.44 W		19.72' S	42.95 W	.45
6374.00	2.30	S 49.00 W	74.00	6371.71		16.10 S	15.57 W		22.40' S	44.04 W	.62

CLOSURE DISTANCE = 22.40 FEET.

CLOSURE DIRECTION = S 44.04 W