

Eastman Whipstock

A PETROLANE COMPANY

BEFORE EXAMINER STAMETS	
OIL COMPANY REGISTRATION	
Applic	6
QJENR	5891
Sealed by	Suuddy
Hardy, Date	3/23/77

Ef 6

Mr. Sam H. Snoddy

Federal Well No. 1

Lea Co., New Mexico



(915) 563-0511 / Telex: 74-3452
P. O. Box 5577 / Midland, Texas 79701
Int'l: TWX 910-881-5066 / Cable: EASTCO

March 16, 1977

Mr. Sam H. Snoddy
202 Mid American Bldg.
Midland, Texas 79701

Dear Mr. Snoddy;

Please find enclosed an Angle Build up schedule proposal, Surface Plat showing both surface locations and bottom hole locations and Cost Estimates to control directional drill your pending Federal Wells No. 1 and 2, in Lea County, New Mexico.

I believe the cost estimates are realistic but will do more research into the actual planning of the kick-off point. We will be looking for a drilling break in the vicinity of 7500'. The kick-off point could vary a few 100' either way.

We appreciate the opportunity to submit this proposal to you and as always, it is our pleasure to be of service.

Sincerely,

Ray Warner
District Representative

RW/pj

enc:

Sam H. Snoddy

Federal Well No. 1
Lea Co., New Mexico

RECOMMENDED PRODECURES

1. Run directional survey 0' to 3000' (casing point) either on 5/16" (minimum) wire line or run 6 $\frac{1}{4}$ " x 25' non-magnetic drill collar on last bit trip before drilling to casing point and drop multiple shot and survey on trip out of hole.
2. Drill to approximately 7000' and drop multiple shot survey on trip out. (Accumulated deviation in off-set well is 133'). It is possible that this deviation could be in the opposite direction of the proposed direction. In this case it is possible we would have to start deflecting the well at this point (depending on where the bottom hole location from surface and/or proposed bottom hole location). If the bottom hole location is in a favorable position we would drill to a deeper depth for our kick off point.
3. Upon reaching kick off point, we would run 7 7/8" diamond bit, down hole mud motor, 2 ϕ deflecting sub w/orienting sleeve, 6 $\frac{1}{4}$ " x 25' non-magnetic drill collar and regular steel drill collars and drill pipe and drill 60' +/- w/surface read out equipment to deflect the well bore with the proper direction and angle.
4. Run regular drilling bit, extention sub, bottom hole reamer, non-magnetic drill collar and steel collars until average angle is reached.
5. Run packer hole assembly consisting of regular drilling bit, bottom hole reamer, short steel drill collar, reamer, non-magnetic drill collar, reamer and steel drill collars.
6. Drill until it is determined that a corrective deflecting tool is needed or to total depth.

Note: It may be necessary to change the recommended procedures because of hole conditions or other considerations.

Sam H. Snoddy

Federal No. 1
Lea Co., New Mexico

COST ESTIMATE

Cost Estimate based on 44 Straight Hole Drilling days from kick-off point, 7500' TVD, to total depth of 13,500' TVD.

Directional Surveys 0' to 13,500'	\$2420.00
1st Day Directional Drilling Service	575.00
59 Additional days @ \$310.00 per day	18,290.00
60 Days Meals and lodging @ \$30.00 per day	1800.00
Down Hole Motor (initial run, 15 hrs)	1850.00
Loss in Hole Coverage	110.00
Down Hole Motor (corrective run, 8 hrs)	1010.00
Loss in Hole Coverage	70.00
Wire Line Charges--1st run	1000.00
Surface Read-Out -- 1st run	2300.00
2° Deflecting sub w/sleeve min 7.50 @ 15 days	112.50
6 1/4 x 25' Non Magnetic Drill Collar 60 days @ 60.60 per day	3636.00
Directional Single Shot Instrument 60 days @34.00 per day	2040.00
7 7/8 Diamond Bit	3500.00
3 Reamer Body Rental @165.00 each	495.00
3 Sets 7 7/8 Reamer Cutters @ 315.00 each	945.00
6 1/2" x 10' Steel Drill Collar 56 Days @ 9.00 per day	504.00
Miscellaneous subs, trucking, mileage, etc.	<u>600.00</u>
	\$33,985.50
	4125750
Average cost per day --	\$566.45

Sam H. Snoddy

Federal Well No. 1
Lea Co., New Mexico

ANGLE BUILD-UP SCHEDULE

2° per 100'

Measured Depth	Angle	TVD	Displacement
7500'	0°	7500.00'	0°
7600'	2°	7599.98'	1.75'
7700'	4°	7699.84'	6.98'
7800'	6°	7799.45'	15.70'
7900'	8°	7898.70'	27.89'
8000'	10°	7997.46'	43.54'
8100'	12°	8095.62'	62.63'
8200	14°	8193.05'	85.13'
8300'	16°	8289.63'	111.02'
13777.45'	17°58'	13500.00	1800.00'

Sam H. Snoddy

Federal No. 1
Lea Co., New Mexico

COST ESTIMATE

Cost Estimate based on 44 Straight Hole Drilling days from kick-off point, 7500' TVD, to total depth of 13,500' TVD.

Directional Surveys 0' to 13,500'	\$2420.00
1st Day Directional Drilling Service	575.00
59 Additional days @ \$310.00 per day	18,290.00
60 Days Meals and lodging @ \$30.00 per day	1800.00
Down Hole Motor (initial run, 15 hrs)	1850.00
Loss in Hole Coverage	110.00
Down Hole Motor (corrective run, 8 hrs)	1010.00
Loss in Hole Coverage	70.00
Wire Line Charges--1st run	1000.00
Surface Read-Out -- 1st run	2300.00
2° Deflecting sub w/sleeve min 7.50 @ 15 days	112.50
6 1/4 x 25' Non Magnetic Drill Collar 60 days @ 60.60 per day	3636.00
Directional Single Shot Instrument 60 days @ \$34.00 per day	2040.00
7 7/8 Diamond Bit	3500.00
3 Reamer Body Rental @ \$165.00 each	495.00
7 Sets 7 7/8 Reamer Cutters @ \$315.00 each	2205.00
6 1/2" x 10' Steel Drill Collar 56 Days @ 9.00 per day	504.00
Miscellaneous subs, trucking, mileage, etc.	<u>600.00</u>
	\$ 42,517.50

Average cost per day -- \$ 708.63

Contact your nearest **Eastman Whipstock** representative

EASTMAN WHIPSTOCK, INC.
P. O. Box 14609
Houston, Texas 77021 (713) 797-9500
TWX 910-881-5066/Cable: EASTCO

Domestic Offices

ABILENE, Texas 79604
P. O. Box 1035
(915) 673-1847

ANCHORAGE, Alaska 99509
P. O. Box 4-1970
(907) 272-1032

BROOKHAVEN, Mississippi 39601
P. O. Box 43
(601) 833-7831

CASPER, Wyoming 82601
P. O. Box 1284
(307) 237-9880/Telex: 31-9482

CLARKSBURG, West Virginia
Mailing Address:
P. O. Box 150
Nutter Fort, West Virginia 26301
(304) 623-5738

CORPUS CHRISTI, Texas 78404
P. O. Box 4653
(512) 883-3672

DENVER, Colorado 80202
Suite 1610 Denver Club Bldg.
518 - 17th Street
(303) 623-7151/Telex: 45-782

FARMINGTON, New Mexico 87401
P. O. Box 1004
(505) 325-5991

HOBBS, New Mexico 88240
P. O. Box 2366
(505) 393-2811

HOUMA, Louisiana
Mailing Address:
P. O. Box 7-A
Gray, Louisiana 70359
(504) 876-1028

HOUSTON, Texas 77035
P. O. Box 35040
(713) 729-4595 (District Office)

LAFAYETTE, Louisiana 70501
P.O. Box 51106, O.C.S.
(318) 235-8501

LONG BEACH, California 90801
P. O. Box 408
(213) 426-3921

MIDLAND, Texas 79701
P. O. Box 5577
(915) 563-0511/Telex: 74-3452

NEW IBERIA, Louisiana 70560
P. O. Box 1197
(318) 364-5866

NEW ORLEANS, Louisiana
1130 Destrehan
Harvey, Louisiana 70058
(504) 347-8477
Mailing Address:
P. O. Box 99
Marrero, Louisiana 70072

OKLAHOMA CITY, Oklahoma 73109
P. O. Box 94938
(405) 672-1389

PENSACOLA, Florida 32504
P. O. Box 10026
(904) 433-7846

SAN ANGELO, Texas 76901
P. O. Box 766
(915) 655-2810

TRAVERSE CITY, Michigan 49684
P. O. Box 672
(616) 946-0310

TYLER, Texas 75701
P. O. Box 3533
(214) 597-6781

VENTURA, California 93001
P. O. Box 1414
(805) 643-2553

VERNAL, Utah 84078
P. O. Box 239
(801) 789-1905

WICHITA FALLS, Texas 76301
P. O. Box 1124
(817) 692-4631

International Offices

ARGENTINA, Buenos Aires
c/o D. G. Cormick
Corrientes 1312-3°
Phone: 40-1508/1277/2444
Cable: CORMICK BAIREs

AUSTRALIA, Sale, Victoria 3850
Eastman Directional Drilling (Aust.) Pty. Ltd.
P.O. Box 256
Phone: (051) 442334
Cable: WHIPSTOCK
Telex: (790) AA51152

BOLIVIA, LaPaz
Equipo Petrolero Ltda.
Casilla 1359
Phone: 10977
Cable: EQUIPETROL
Telex: 3560060 (ITT)

CANADA, Calgary, Alberta
Eastman Oil Well Survey Co., Ltd.
Box 6780, Sin D
914 Seventh Ave. S.W.
Phone: (403) 263-4160
Cable: WHIPSTOCK

CANADA, Edmonton, Alberta
Eastman Oil Well Survey Co., Ltd.
9705 56th Avenue
Phone: (403) 434-9551
Cable: WHIPSTOCK

COLOMBIA, Bogota
Sudamericana de Perforaciones y Servicios, S.A.
Apartado Aereo 7940
Phone: 324956/324885/324837
Cable: SUPERSER
Tw: 44441

DUBAI, U.A.E. Arabian Gulf
Eastman Whipstock, Inc.
P. O. Box 567
Phone: 24806
Telex: (958) 5841
Cable: WHIPCO

ECUADOR, Quito
Sudamericana de Perforaciones y Servicios, S.A.
18 de Sept. y 6 de Dic. 2° Piso
P. O. Box "A" 446
Phone: 524394-527098
Cable: SUPERSER/Telex: 393-22147

ENGLAND, Great Yarmouth, Norfolk
Eastman Whipstock (UK) Ltd.
Whipstock House
Southgates Road
Phone: 57691-4
Cable: EASTCO
Telex: (851) 975039

ENGLAND, Twickenham, Middlesex
TWI 1PP
Eastman Whipstock (UK) Ltd.
389 St. Margaret's Road
Phone: 01-892-9917 or 891-1139
Telex: (851) 934450

FORMOSA, Taipei, Taiwan
Elephant Oilwell Supply Co., Ltd.
P.O. Box 1243
Phone: 379851/379852
Cable: ELEOWS
Telex: 21035 TAIPEI

INDONESIA, Jakarta
Eastman Whipstock, Inc.
P. O. Box 2485
Jalan Melawi Raya 8
Kebayoran Baru
Phone: 73315
Telex: IAT JKT 46404

IRAN, Ahwaz 200
Eastman Whipstock, Inc.
P.O. Box 1093
Phone: 31767

IRAN, Tehran
Eastman Whipstock, Inc.
P. O. Box 14-1803
Phone: 623148
Telex: ENMC212141IR

JAPAN, Tokyo 101
% Daiichi Jitsugyo Co. Ltd.
20 Kanda Nishiki-Cho 3-Chome
Chiyoda-Ku
Phone: 293-1351
Cable: KRASHO TOKYO
Telex: (781) 222-3485/222-3523

MALAYSIA, Kota Kinabalu, Sabah
Eastman Whipstock, Inc.
P. O. Box 82, Tanjong Aru
Phone: 53904

NIGERIA, Lagos
Whipstock Nigeria Ltd.
P. O. Box 4413
Phone: 54065
Cable: WHIPCO

NORWAY, Tananger 4056
Eastman Whipstock (UK) Ltd.
c/o Norsco Oil Base
Phone: (045) 96501
Telex: (856) 33048

PERU, Lima
Sudamericana de Perforaciones y Servicios, S.A.
Casilla Postal 657
Phone: 224306/351066
Tw: 5645

SCOTLAND, Aberdeen AB2 8EF
Eastman Whipstock (UK) Ltd.
JGB Centre 2 Woodsde Road
Bridge of Don Industrial Estate
Phone: Balgownie 703511
Night: Aberdeen 21037/Telex: 73547

SINGAPORE, Singapore 13
Eastman Whipstock, Inc.
19 Harper Road
Phone: 2822600/2823989
Telex: RS23533

TRINIDAD, San Fernando
c/o Trinpet Services Ltd.
P. O. Box 104
Phone: 78028/77155
Cable: TRINPET

WEST GERMANY, Westerfeld
Eastman International Co., GmbH
P. O. Box 1160
Carl-Zeiss-Strasse 16
3005 Hannover
Phone: (511) 420161/420162
Cable: EASTCO
Telex: (841) 922590

Eastman Whipstock
A PETROLANE COMPANY