ROBERT G. COX

DALLAS, TEXAS 26206 75234

September 17, 1975

RECEIVED

SEP 2 5 1975

U.S.G.S. Department of the Interior P. O. Drawer U Artesia, New Mexico 88210

O. C. C.

Re: Robert G. Cox Re-Entry #1 Federal "EA" Sec. 12, T-18-S, R-27-E Eddy County, New Mexico

Attn: Mr. James Knauf Mr. R. L. Beekman

Dear Sirs:

Please excuse the delay in getting back in touch with you since your phone call last week concerning the above captioned well.

As I did not have a copy of the Commission Order, it having been destroyed or lost during our office fire last January, I had to contact a representative in Santa Fe to go to the Commission and obtain one. It was Thursday afternoon before I could contact him and he told me we'd have to wait until Monday as all State Offices were closed Friday for the opening of the State Fair. He advised me yesterday how the Order read.

In the interim, I contacted Eastman Whipstock to inquire as to the basic differences between a continuous multi-shot survey and the single shot which their representative ran in the bore hole while drilling.

They said a continuous multi-shot survey is conducted by lowering the instrument inside the drill pipe or casing and by a film they can make a continuous directional survey of the well-bore by stopping and taking a picture or photo at any desired depth.

The single shot survey is run while drilling and at specific intervals they take a photo recorded on a film disc to simultaneously record the inclination (drift angle) and the magnetic direction of the bore hole. A survey of this type is necessary

EXPLORATION EVALUATION PRODUCTION APPRAISALS

Page 2

for the controlled directional drilling of bore holes and for calculating the bottom hole position of the bore in relation to the surface location.

It was their opinion that the single shot survey would be as accurate as a continuous multi-shot survey run every 100'-200', in that the surveyor took photos of drift or direction 32 times in our present bore hole, whereby the other method (continuous multi-shot) they'd only take pictures between 6200'-3800' (whipstock point) 12 times on 200 foot intervals or 24 times on 100 foot spacing.

They took all the data obtained from the continuous multiple survey they ran in 1963 and the data obtained in the single shot surveys run while drilling and arrived (thru the radius of curvature method, which is the method they generally use to compute this multiple shot) at a bottom hole location 268.56 N and 320.59 W of our surface location. This was in contrast to the computed method (tangential) used by the surveyor on location of 274.06 N and 324.24 W of the surface location.

I am submitting a re-test as a supplement to the previous filed test, as last week we finally were able to get a 24 hour pump test and GOR test, after numerous rod breaks and pumping 100% water for 5 days. As the water production hasn't decreased since the show of oil, it is the opinion of some people familiar with the low wells producing abundant water that we may have trouble establishing an oil cut as we're experiencing now. Hopefully, the water production will abate, but it is too early to tell due to the short period we have had it on continuous production.

Per our discussions of August 29th, we will keep you periodically notified as to the well's performance.

Very truly yours,

Libert & Col

ROBERT G. COX

RGC:pm

Enc: Eastman Radius of Curvature Directional Survey Form 9-330

Form 9-330 (Rev. 5-63)			STATES	SUBI	WIT IN DUP	LICATE	J F	orm approved.	
UNITED STATES SUBMIT IN DUPLICATE • DEPARTMENT OF THE INTERIOR (See other in structions on									
GEOLOGICAL SURVEY									
WELL CC	MPLETION C		PLETION	REPORT	AND L	OG *	6. IF INDIAN,	ALLOTTEE OR TRIBE NAME	
b. TYPE OF CON	WELL	WELL	DRY	Other			7. UNIT AGRE	EMENT NAME	
NEW WORK A DEEP PLUG DIFF. Other <u>Re-test</u>								EASE NAME	
2. NAME OF OPERATOR							- Feder	- Federal "EA"	
Robert G. Cox								9. WELL NO.	
4230 LBJ Freeway, Dallas, Texas 75234								H1 10. FIELD AND POOL, OR WILDCAT	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*								Empire Abo	
At surface 330' FNL & 330' FWL								11. SEC., T., R., M., OE BLOCK AND SURVEY OR AREA	
At top prod. interval reported below 10° FWL & 66° FNL								Sec. 12, T-18-S	
At total depth			66 FN	L .	- 		R-27	7-E	
10	' FWL & 66'	FNL	14. PERMIT NO		DATE ISSUE		12. COUNTY OF PARISH	B 13. STATA	
15. DATE SPUDDED	16. DATE T.D. REACT	IED 17. DATE C	OMPL. (Ready)	to prod.) 19	<u>4-15-</u>		Eddy	19. ELEV. CASINGHEAD	
7-8-75	7-31-75	8-29	-75		,		20 KB	3612	
20. TOTAL DEPTH, MD		CK T.D., MD & TVI	22. IF MUL HOW M	LTIPLE COMPL	, 23.	INTERVALS	ROTARY TOOL		
6220 MD/6189	TVD 621 BVAL(S), OF THIS COM		Sing		• -	→	6220	25. WAS DIRECTIONAL	
			•					SURVEY MADE	
6212'-16' (6181'-85') Abo Formation								Yes	
26. TYPE ELECTRIC AND OTHER LOGS RUN IES, Compensated Density & Gamma Ray/Neutron							1	27. WAS WELL CORED	
28,			RECORD (Rej					10	
CARING SIZE	WEIGHT, LB./FT.	DEPTH SET (LE SIZE			G RECORD	AMOUNT PULLED	
8 5/8"		1492'	12	3/4"	8	50 sx	S	None	
5 1/2"	<u>15.5</u>	6219'	7	7/3"	1.	50 sx	£		
		-							
29.		R RECORD			30.		TUBING RECOR	RD	
, \$12A	TOP (MD) BOT	TOM (MD) SA	CKS CEMENT*	SCREEN (M			DEPTH SET (MD)) PACKEB SET (MD)	
	••••••••••••••••••••••••••••••••••••••					3/8" -	<u> 6216 ' </u>		
81. PERFORATION REC	ORD (Interval, size an	d number)	*====	82.	ACID, SH	OT. FRAC	TURE, CEMENT	SQUEEZE, ETC.	
6208'-18'	oboo 10 w/2 jee anota/it. (prugged						MOUNT AND KIND	OF MATERIAL USED	
61621-701	off) 6162'-70' w/2 jet shots/ft.							ow 15% BDA	
	L20'-30' w/2 jet shots/ft.				6162'-70' 6120'-30' 200			<u>" " Reg.</u> <u>" </u> N H	
6212 -16	w/2 jet sh			6212.	-16!	1 200		11 11	
DATE FIRST PRODUCTI	ON PRODUCTIO	N METHOD (Flow			and type of s	ump)		TATUS (Producing or	
8-11-75	Pumpin	ng – HF 2		: 16' Me	etal to	Meta	al Poto	• Ē	
PATE OF TEST 9-15-75	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	1	Plunger		WATER BEL		
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED	OIL-BBL.	34 GAS-1		VATER	<u> 110</u>	E82 (Meas.)	
	20		34	30)		LO	43.	
1 A A A A A A A A A A A A A A A A A A A	a (Bold, used for fuel,	vented, etc.)			•		TEST WITNESSE	D BY	
Vented 35. List of Attaching	SNT8				······		John G	ray	
21 copies	Eastman Rad	lius of (Curvatur	e Direc	tional	Surv	rey	α τ ^ε 9.α	
86. I hereby certify	that the foregoing and	attached inform	nation is compl	ete and corre-	ct as determ	ined from	all available reco		
SIGNED Lo	sut S.	Car_	TITLE	Operat	or	· · ·	PATE _	9-17-75	
	*(See Inst	ructions and S	Spaces for A	dditional D	ata on Re	verse Sid	le)		

÷