CUPY TO O. C. C. SUBMIT IN TR *CATE

(Other instructiverse side)

Form approved. Budget Bureau No. 42-R1425.

UNITED STATES

(May vecs)		ED STATES	,	reverse side)		30-025-	26726
	DEPARTMENT	OF THE IN	LEKIOK			5. LEASE DESIGNATION	AND SEMIAL NO.
	GEOLO	GICAL SURVE	Y		1	LC 054667	
APPLICATION	I FOR PERMIT T	O DRILL, D	EEPEN, OR	PLUG BA	CK	G. IF INDIAN, ALLOTTE	E OR TRIBE NAME
la. TYPE OF WORK	LL 🖾	DEEPEN [] P	LUG BACK		7. UNIT AGREEMENT N	AME
b. TYPE OF WELL			SINGLE TO	MULTIPLE		S. FARM OR LEASE NA	
OIL GA	S OTHER		ZONE X	ZONE			
2. NAME OF OPERATOR					_	El Paso Tom	Federal
Alpha Twenty-	One Production	Company				9. WELL NO.	
3. ADDRESS OF OPERATOR					_	3	_
2100 First Na	tional Bank Bui	lding, Midla	and, Texas	79701		10. FIELD AND POOL,	OR WILDCAT
4. LOCATION OF WELL (Re	eport location clearly and	in accordance with	any State requires	ments.*)		Langlie Mattix (D)	
At surface 1650 FWL & 16.	50 FNL, Section	33			-	11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA	
At proposed prod. zon	-					Section 33, T-25-S,	
At proposed prod. zon	C					R-37-E, NMPI	
14. DISTANCE IN MILES	ND DIRECTION FROM NEAR	EST TOWN OR POST	OFFICE*			12. COUNTY OR PARISH	
NW corner of	Lease borders S					Lea	New Mexico
15. DISTANCE FROM PROPO LOCATION TO NEAREST			16. NO. OF ACRES	IN LEASE 1		ACRES ASSIGNED	
PROPERTY OR LEASE L	INE, FT. 330	feet	440			40	
18. DISTANCE FROM PROP			19. PROPOSED DEPT	·н 20	0. ROTAR	TARY OR CABLE TOOLS	
TO NEAREST WELL, DI OR APPLIED FOR, ON THI			3300 '		Rota	ırv	
21. ELEVATIONS (Show who	ether DF, RT, GR, etc.)	<u> </u>		···		22. APPROX. DATE WO	ORK WILL START*
3001 G.L. (3011 RKB)					04-01-80	
23.	P	ROPOSED CASING	G AND CEMENTI	NG PROGRAM			
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOO	OT SETTIN	g рерт н		QUANTITY OF CEME	NT
15	13 3/8	33	3	0	20 (c	irculate)	
12 1/4	8 5/8	28	40	0 4	•	irculate)	
7 7/8	5 1/2	17	330	0 6	•	circulate)	

A 10 3/4-inch 2000-psi rotating head will be used while drilling the surface hole. Before drilling out from under the surface pipe, the well will be equipped with a 3000-psi 10-inch Series 900 double-ram hydraulic BOP system,

For other necessary BOP data required with the APD, see the attached drilling prognosis.

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IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposed zone. If proposal is to drill or deepen directionally, goreventer program, if any.	U. S. GEOLOGIC sal is to deepen or plug back, give data on present productly ive pertinent data on subsurface locations and measures and	AL SURVEY e zone and proposed new productive Maxical depths. Give blowout
signed Commy/Phipp	TITLE Executive Vice President	DATE 01-18-80
(This space for Federal of State office use)	APPROVAL DATE	
APPROVED BY CONDITIONS OF APPROVAL, IF ANY:	TIPLE	DATE

		All distances must be from	the outer boundaries of	the Section	
Operator Alpha Twe	enty One Produ	uction Company	El Paso T	om Federal	Well No.
t'ait [etter	Section	Township	Range	County	
Actual Footage Loca	33	25 South	37 Fast	Lea	
1650		orth line and	1650 tee	et from the West	line
Ground Level Flev.	Producing For			T TOTAL TOTAL	Dedicated Acreage:
3001	Seven Ri	vers - Queen	Langlie Matti	x	40 Acres
1. Outline the	e acreage dedica	ted to the subject well	by colored pencil o	r hachure marks on	the plat below.
2. If more th interest an	an one lease is droyalty).	dedicated to the well, o	utline each and ide	ntify the ownership	thereof (both as to working
		ifferent ownership is ded nitization, force-pooling.		have the interests	of all owners been consoli-
Yes	No If an	swer is "yes;" type of co	onsolidation		
this form if No allowab	necessary.) de will be assigne	d to the well until all in	terests have been o	consolidated (by co	mmunitization, unitization, on approved by the Commis-
	i 4		i i		CERTIFICATION
	1650		† 	toined h	e certify that the information con- verein is true and complete to the my knowledge and belief.
	_	41-1- T			Plate
	1	. -	ty-Ohe Prod. C . (Gas Rights)	fosition	Phipps
1650		4	tes of America	Execut	ive Vice President
	1	12½% R.	I.	Company	m . 0 P 1 G
	1		İ	Alpha	Twenty-One Prod. Co.
	4		1	1-18-8	30
	 		3631 1 1	shawn oi notes of under my is true	r certify that the well location in this plat was plotted from field actual surveys made by me or r supervision, and that the same and correct to the best of my ge and belief
	 	Red Parts	THO SURIE		2-27-1979 Frotessional Engineer d Surveyor
Personal Property				Certificate	
0 330 660 9	0 1320 1680 1980	2310 2840 2000	1800 1000 80	9 0	PATRICK A. ROMERO 6888 Rongld J. Eidson 3239

DRILLING PROGNOSIS

 Well Identification 	on	Ü
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Lease Name:	El Paso Tom Federal		
Well No.:	3.		
Location:	1650 FWL & 1650 FNL Section 33		
•	T-25-S, R-37-E		
County:	Lea		
State:	New Mexico	• .	
Elevations:	3001 G. L. (3011 RKB)		

II. <u>Drilling Objective:</u>

Seven Rivers - Queen
3300
Langlie Mattix
3020-3250

III. Formation Tops:

Zone	Tops Drilling Subsea Depth Depth		Gross Interval Drilled	Probable Fluid Production
Rustler Anhydrite	920	+2081	230	
Salado Salt	1150	+1851	1240	
Tansil	2390	+ 611	150	
Yates	2 540	+ 461	300	
Seven Rivers	2840	+ 161	280	Hydrocarbons
Queen	3120	- 119	180	Hydrocarbons

TOTAL DEPTH	3300	_ 299	3300	

IV. <u>Hole Size</u>:

Nole	Bit Size	T.D.	Gross Interval	
•				
Conductor .	15	40	40	
Surface	12 1/4	400	360	
Production	7 7/8	3300	2500	

V. Casing Program:

A. Casing Design

String		Casing	Size		Amount	Cond.
	. O.D.	Wt.	Grade	Threads		
Conductor	13 3/8	33	В	8 Rd	30	New
Surface	8 5/8	28	В	8 Rd	400	New
Production	5 1/2	17.0	J-55	8 Rd	3300	New

B. Float Equipment:

Surface Casing:	8 5/8-inch guide-shoe and 8 5/8-inch insert float.
Production Casing	g: 5 1/2-inch guide-shoe and 5 1/2-inch float collar
with automatic fi	.11.

C. Centralizers:

Surface Casing:	One centralizer	at	the floa	t collar	and c	ne centra	lizer
two joints above	float collar.			· · · · · · · · · · · · · · · · · · ·			
						· · · · · · · · · · · · · · · · · · ·	

	Production Casing: Run a total of 8 centralizers. Frace one centralizer
	at the guide shoe and one centralizer at the float collar with the
	remaining being placed 80 to 90 feet apart or every other joint.
D.	Wellhead Equipment:
	Larkin 8 5/8 x 5 1/2 Fig 92 Casinghead. Larkin 5 1/2 x 2 3/8
	Type TH tubinghead complete with slips and bell nipple.
Mud	Program
A.	Surface Hole:
	Drill surface hole with a fresh water gel (approximately 8.5 lb/gal)
	while maintaining a high enough viscosity to adequately clean hole.
	Add paper as needed to control excess seepage.
	Before drilling below surface pipe, jet cuttings out of working pit
	into reserve pit and then switch from circulating through working pit to
	circulating through reserve pit.
В.	Production Hole:
	Before entering salt section, switch mud system to a saturated salt
	system (10.1 lb/gal). At 2500, switch back out of reserve pit and
	back into working pit. Also, at this point, start adding starch and
	brine gel to lower water loss and raise viscosity. The mud shall have
	a water loss of 10 cc/30 min and a viscosity of 34 to 36 sec. before

VI.

	reaching 2600.
	In order to protect the drill string, sufficient lime shall be added
	to the mud to maintain a safe PH level.
Ce	menting Program
Α.	Surface Pipe:
	Cement surface pipe with approximately 400 sacks (or as required) of
	API Class-C cement containing 2% Calcium Chloride. Before resuming
	drilling operations, allow cement to set for a sufficient time to gain a
	500-psi compressive strength (18 hours). Also, before drilling plug,
	the pipe shall be tested to 700 psi for 30 minutes.
в.	Production String:
	Cement long string with approximately 350 sacks API Class-C cement
	containing 3% Halliburton Econolite mixed to a slurry weight of 11.3 lb/gal
	followed by 250 sacks of a 50-50 blend of Pozmix "A" and API Class-C cement
	containing 18% salt and 2% gel and having a slurry weight of 14.1 lb/gal.
	Pump 30 barrels of water ahead of the cement to help remove the mud filter
	nelto.
	care
	Once top plug is bumped, pressure test casing to 1500 psi.
	T. C I
	The total energiated computer of COO 1 1 1 1 1 1
	The total specified cement volume of 600 sacks provides for an excess that

VII.

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	the cement job is actually performed, the required coment volume will					
	checked against the open hole caliper log to determine the actual amo					
	of cement necessary to bring the cement back to the surface.					
	· · · · · · · · · · · · · · · · · · ·					
For	cmation Evaluation:					
Α.	Drilling Rate:					
	1. The drilling rate shall be monitored with a geolograph from the					
	surface to total depth.					
	2. As part of their farmout agreement, El Paso Natural Gas Company					
requires that the penetration rate be tabulated in 10-feet inc						
	over the entire hole.					
в.	Well Cutting Samples:					
	One set of well cutting samples shall be gathered every 10 feet from					
	the surface to total depth. Each sample is to be cleaned, bagged, and					
	tagged and then grouped into bundles of ten samples per bundle with					
	one bundle representing each 100-feet drilled.					
	After the drill cuttings have been reviewed by the wellsite geologist,					
	After the drill cuttings have been reviewed by the wellsite geologist, they shall be delivered weekly to Midland Sample Cut, 704 S. Pecos Str					

C.	Mud Logging:	None				
D.	Drill-Stem Testing:	None	·· · · ····			
Ε.	Coring:	None				
F.	Well Logging:					
•••		Open-H	ole L	ogs		
Log		_		Interval		
****			2"	= 100°	5" = 100"	
CDL	-Neutron-GR	,	т.	D Surface	T.D 2200	
Gua	rd - Forxo	-	т.	D 2200	T. D 2200	
		•				
		Cased-I	Hole	Logs		
Log		_	Interval			
		_	2"	= 100'	5" = 100'	
GRN	-CCL	_	т.	D 2200	T.D 2200	
		-	-			
		•			-	
-		Log Dis	strib	ution		
Company				No. of Copies		
				Field Prints	Final Prints	
Alpha Twenty-One Production Company 2100 First National Bank Building				8	8	
	land, Texas 79701			•	•	
United States Geological Survey P. O. Box 1157 Hobbs, New Mexico 88240				0	6	
Mr. O. L. Dilworth El Paso Natural Gas Company 1800 Wilco Building Midland, Texas 79701				3	3	