COPY TO O. C. C.

SUBMIT IN TOPPLICATE

Form approved.

(Other inst ons on reverse _ e)

Budget Bureau No. 42-R1425.

UNITED STATES DEPARTMENT OF THE INTERIOR

30	-025-29025
	SE DESIGNATION AND SERIAL NO.

GEOLOGICAL SURVEY							1	ION AND BEBIAL NO.	
						· ·-	NM 40658		
APPLICATIO	N FOR PERMIT	TO DRILL,	DEEP	EN, OR P	LUG E	3ACK	G. IF INDIAN, ALLO	TTEE OR TRIBE NAME	
	RILL 🛚	DEEPEN		PLU	JG BA	 СК 🗌	7. UNIT AGREEMEN	T NAME	
	GAS OTHER			INGLE X	MULTIF ZONE	CLE	8. FARM OR LEASE	NAME	
2. NAME OF OPERATOR							Buckskin I	Federal	
Alpha Twenty	-One Production	Company					9. WELL NO.		
3. ADDRESS OF OPERATOR							3		
2100 First N	ational Bank Bu	ilding					10. FIELD AND POO	L, OR WILDCAT	
4. LOCATION OF WELL () At surface	Report location clearly an	d in accordance w	ith any S	state requiremen	nts.*)		Dollarhide	e-Tubb Drinkar	
1980 FWL and	1980 FSL, Sect	ion 18, T24	4S, R3	38E			11. SEC., T., B., M., AND SURVEY OF	OR BLK.	
At proposed prod. zo	ne					:	Sec. 18,	T24S, R38E	
	AND DIRECTION FROM NE		ST OFFIC	Ľ.*			12. COUNTY OR PAR	ISH 13. STATE	
Seven Miles	Northeast of J	al, N.M.					Lea	N. M.	
15. DISTANCE FROM PROF LOCATION TO NEARES PROPERTY OR LEASE	ST LINE, FT.	60 '	1	O. OF ACRES IN	LEASE		OF ACRES ASSIGNED HIS WELL		
18. DISTANCE FROM PRO	POSED LOCATION*	00	_1	240 ROPOSED DEPTH		20 ROTA	40 DTARY OR CABLE TOOLS		
TO NEAREST WELL, OR APPLIED FOR, ON TI	DRILLING, COMPLETED, HIS LEASE, FT.	50	1	5800¹		l .	otary		
21. ELEVATIONS (Show w	hether DF, RT, GR, etc.)					1 100		WORK WILL START*	
3181 G.L.						-	9-15-80		
23.		PROPOSED CASI	NG ANI	CEMENTING	PROGRA	AM	1 23 00	,	
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER I	FOOT	SETTING D	ЕРТН		QUANTITY OF CE	MENT	
15	12-3/4	33			30	Redin	nix to Surfac	ce	
12-1/4	8-5/8	28		13	300	800 s	x. (Circulat	:e)	
7-7/8	5-1/2	17		68	300	300 s	SX.		
	1	1		l		i	·-		
A 10-3/4-incl	h 2000-psi Rota	ting Head w	7ill h	e used wh	nile d	rillino	the		
	le. Before dri								
	be equipped wit							•	
	BOP System.				,0				
	-								

For other necessary BOP Data Required with the APD, see the attached Note: Drilling Prognosis.

JUL 2 1 1980

U. S. GEOLOGICAL SURVEY HOBBS, NEW MEXICO

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive sone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

SIGNED	TITLE Executive Vice	President DATE
(This space for Federal or State office use)		
PERMIT NO.	APPROVAL DATE	APPROVED
APPROVED BY	TITLE	DATE
CONDITIONS OF AFFROVAL, IF ANY:		AUG 2,8 1980
		1 les
	*See Instructions On Reverse Side	DISTRICT SUPERVISOR

N MEXICO OIL CONSERVATION COMMISS I WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C+102 Supersedes C+128 Effective 1-1-65

All distances must be from the outer boundaries of the Section

Ciperator		Lease		la de la companya de
Alpha 21 Production	n Company	Buckskin	Federal	Weilter.
Unit Letter Section	Township	Range	Jounty	
K 18 Actual Footage Location of Weil:	24 South	38 East	Lea	
1000	outh line and	1980	t from the West	
Ground 'gvel Elev. Producing For	mution	Pool		line Pedicated Arreage:
3181.2 Drinkar		West Dollarhio	le	40 acces
1. Outline the acreage dedica	ted to the subject wel	l by colored pencil o	r hachure marks on the	plat below
2. If more than one lease is interest and royalty).				1
3. If more than one lease of d dated by communitization, u	nitization, force-poolin	g. etc?	have the interests of a	ll owners been consoli-
Yes No If ar	iswer is "yes;" type of	consolidation		
If answer is "no," list the this form if necessary.)	owners and tract descri	ptions which have ac	tually been consolidate	d. (Use reverse side of
No allowable will be assigned	ed to the well until all ;	nterests have hear -	one olidota 1 /1	
forced-pooling, or otherwise)	or until a non-standard	unit, eliminating suc	ninterests has been a	initization, unitization,
sion.		auc	. interests, nas been a	pproved by the Commis-
1		! 		CERTIFICATION
		i		
		1	1 1	ify that the information con-
		F	9 1	is true and complete to the
		1	best of my ki	nowledge and belief.
		1		12
L		i	Name	///
<u> </u>			Tommy Pl	nipps
i			Position	
		!	 	ve Vice President
		1	Company	
i		ĺ	 	venty-One Production C
		1	Date	
		<u> </u>		
			I hernby cei	tify that the well location
1080		INEER	shown on this	plat was plotted from field
1980	K.EM	TATA	notes of acti	ual surveys made by me or
		0 0	1 1	ervision, and that the same
				correct to the best of my
<u> </u>	- REG	676	knowledge an	d belief.
986	1 2		7	
, <u>o</u>		444\c)/~//	D=1- C:	
i	100	W WEST	Date Surveyed	(2 1000
		W WES	1 [& 2,1980
		1	and or Land Su	· · · · · · · · · · · · · · · · · · ·
		,	1 1	11.50
			1 Som	W West
			Continue to	JOHN W WEST 676

DRILLING PROGNOSIS

I. Well Identification:

	Lease Name:_	Buckskin Federal
	Well No.:	3
	Location: _	1980 FSL & 1980 FWL Section 18, T-24-S, R-38-E

	County:	Lea
	State:	New Mexico
	Elevations:	3181 G. L.
II.	Drilling Obje	ective:
	Zone:	Tubb - Drinkard
	Total Depth:	6800
	Pool Name: _	Dollarhide Tubb-Drinkard
Produ	ctive Interval	1: 6350-6800

III. Formation Tops:

Z one	To	ps	Gross	Probable		
	Drilling	Subsea	Interval	Fluid		
	Depth	Depth	Drilled	Production		
Ogallala (Surface)						
Dewey Red Beds & Shale	-0-	_	<u></u>	· · · · · · · · · · · · · · · · · · ·		
Rustler Anhydrite	1280	+ 1901	1280			
Salado Salt	1560	+ 1621	280			
Tansil	·· 2700	+ 481	_1140			
Yates	2810	+ 371	110			
Seven Rivers	3050	+ 131	240			
Queen	3600	- 419	550			
Grayburg	3960	- 779	360			
San Andres	4200	- 1019	240			
Glorieta	5370	- 2189	1170			
Tubb	6360	- 3179	990	Hydrocarbons		
Drinkard	6450	- 3269	90	Hydrocarbons		
Total Depth	6800	- 3619	6800			

IV. Mole Size:

Hole	Bit Size	T.D.	Gross Interval
Conductor	15	30	30
Surface	12 1/4	1300	1270
Production	7 7/8	6800	5500

V. Casing Program:

A. Casing Design

String	0.D.	Casing Wt.	Size Grade	Threads	Amount	Cond.
Conductor	12 3/4	33	В	8 Rd	30	New
Surface	8 5/8	28	В	8 Rd	1,300	New
Production	5 1/2	17.0	J-55	8 Rd	6,800	New

B. Float Equipment:

Surface	Casing:	_8_	5/8-inch	guide-shoe	and	8	5/8-inch	insert	float.
				······································					
			•.						

Production Casing: 5 1/2-inch guide-shoe and 5 1/2-inch float collar with automatic fill.

C. Centralizers:

Surface Casing:	One Centralizer	at	the	float	collar	and	one	centralizer	
two joints abo	ve float collar.								
					·				

	Production Casing: Run a total of 8 centralizers. Place 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.
	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.
ıd	Program
	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.
	Production Hole:
	Before entering salt section, switch mud system to a saturated salt system
	(10.1 lb/gal). At 2600', switch back out of reserve pit and back into
	working pit. Also, at this point, start adding starch and brine gel to los
	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 reaching 2800' (top of Yates).

VI.

uud to maintain a safe PH level.	
enting Program	
Surface Pipe:	
Cement surface pipe with approximately 800 sacks (or as r	equired) of API
Class-C cement containing 2% Calcium Chloride. Before re	suming drilling
operations, allow cement to set for a sufficient time to	gain a 500-psi
compressive strength (18 hours). Also, before drilling p	lug, the pipe shal
be tested to 700 psi for 30 minutes.	
Production String:	
Cement long string with approximately 300 sacks of a 50-50	blend of Pozmix "
and API Class-C 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 th
nud filter cake. Once top plug is bumped, pressure test c	asing to 1500 psi.
- 	ufficient to bring
The total specified cement volume of 300 sacks should be s	different to bring
The total specified cement volume of 300 sacks should be sthe cement top back to a depth of approximately 5,000'. B	
	efore the cement j
the cement top back to a depth of approximately 5,000'. B	efore the cement j

VII.

	. 1
For	mation Evaluation:
Α.	Drilling Rate:
	1. The drilling rate shall be monitored with a geolograph from the surface
	to total depth.
	2.
R.	Well Cutting Samples:
в.	Well Cutting Samples: One set of well cutting samples shall be enthaned every 10 feet from
В.	One set of well cutting samples shall be gathered every 10 feet from
В.	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
B .	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
В.	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
В.	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
В.	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
В.	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 representating each 100-feet drilled.
в.	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 representating each 100-feet drilled.
В.	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 representating each 100-feet drilled.

E. Coring:	None			
	none_			_
F. Well Logging:	·			
	Open-l	Hole Logs		
Log		Interval		-
		2" = 100"	5" = 100°	
C DL-Neutron-GR	_	T.D Surface	T.D 2000'	
Guard - Forxo		T.D 2000'	T. D 2000'	
	_			_
	Cased-	-Hole Logs		-
Log		Interval		-
	<u></u>	2" = 100°	5" = 100'	_
GRN-CCL		T.D 2000'	T.D 2000'	_
			-	
	Log D	istribution		_
Company		No. of Copies		-
		Field Prints	Final Prints	
Alpha Twenty-One Proc 2100 First National I Midland, Texas 7970	Bank Buildi		8	
United States Geolog: P. O. Box 1157 Hobbs, New Mexico 88		0	2	

Before drilling out	from under the surface pipe, the well well well well well well well we	will be equipped with
3000-psi 10-inch sei	ies 900 double-ram hydraulic preventer	. The blowout prever
shall be used throug	h the running of the production string.	•
Attach ed is a diagra	m of the required BOP system.	

Hazardous Zones:		
None anticipated.		
Duration of Operati	ons:	
Duration of Operati		g the subject well is
The total elapsed t	me required for drilling and completing	g the subject well is
	me required for drilling and completing	g the subject well is
The total elapsed t	me required for drilling and completing	g the subject well is